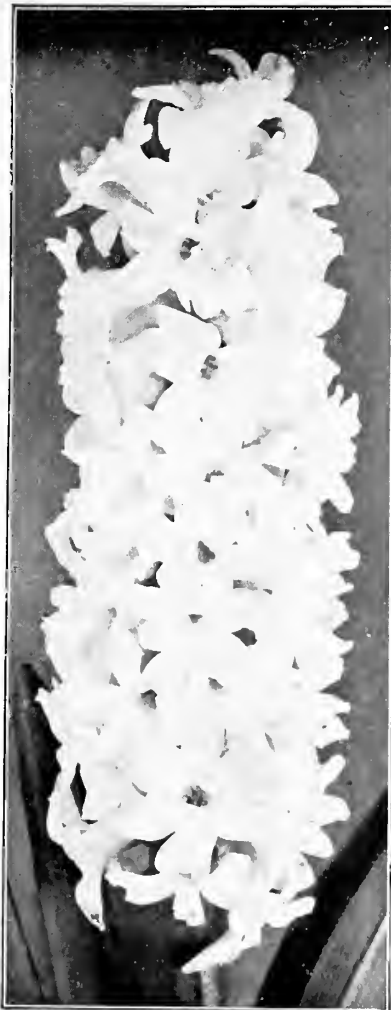


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Do not assume content reflects current scientific knowledge, policies, or practices.



Dutch Hyacinths

THE Hyacinth is so well known and esteemed that any description of its many good qualities is needless. The list now offered includes nearly every shade of red, white, blue, yellow, etc.

Culture of the Hyacinth

FOR PLANTING HYACINTHS IN OPEN GROUND, the preferable season is September to November, but they can be set out at any later time as long as the ground is open. The best compost for their culture is one-third sand, one-third well-rotted cow manure, and one-third good garden mould; or, where the soil is naturally light, well-rotted cow manure liberally intermixed is all sufficient. The beds composed of the above compost should be well dug to a depth of fourteen inches, and raised from two to four inches above the level of the walk. The bulbs should be planted about six inches deep, and from five to six inches apart. Care must be taken not to press the earth too firmly around and over the bulbs. After planting, rake the bed or border smooth, and after the ground has frozen tolerably hard in early Winter, cover with a few inches of dry litter, leaves, evergreen boughs or coarse manure.

FOR THE CULTURE OF HYACINTHS IN POTS, prepare the above compost, adding, if possible, a quantity of leaf mould. The most favorable time for planting is September, October and November; for a succession of bloom, use a four or five-inch pot for a single bulb, and seven-inch for three bulbs. Set the bulbs down in the soil and cover them; do not press them in by force, for this packs the soil under them, and when the roots start they are apt to lift the bulb. After planting, water and set away in a dark place until the pots are well filled with roots. Keep the earth moist, and bring to the light as wanted to bloom. Being exposed to the light for the first time, they are, of course, very delicate, care should, therefore, be exercised not to place them in the direct rays of the sun for two or three days.

FOR CULTURE IN GLASSES, the bulbs should be so placed that only the base touches the water; then place them, for the first ten days, in a dark but cool closet or room, to promote the starting of the roots, after which expose them to the light and air as much as possible; **avoid placing them near gas-light**. The water should be changed as it becomes impure; draw the roots entirely out of the glasses, rinse off the fibers in clean water and wash the inside of the glass well. The water should never be allowed to freeze. When the flowers are well advanced, give them a shower of water every day.

Choice Named Single Hyacinths

(Extra Selected, First-Size)

IT is supposed by many that the best Hyacinths are those which produce double flowers. This is by no means correct, there being many more of the single varieties producing fine, free and brilliant spikes of bloom, and they succeed better in glasses than the double.

PRICES PER DOZEN AND SINGLE BULB INCLUDE POSTAGE

We offer the following named varieties at the uniform price of each 15c; per dozen \$1.50; per 100 \$10.00.

Single Red, Rose and Pink

ETNA, brilliant pink, large spike and flower, late flowering.
GARIBALDI, brilliant carmine, very early.
GENERAL DE WET, light pink, large spike, good flower.
GENERAL PELISSIER, deep crimson, fine truss, early.
GERTRUDE, deep rose, fine compact spike.
GIGANTEA, delicate pink, large bells.
LADY DERBY, bright rose, large spike and flower, excellent for forcing or pot culture, large bulb.
LA VICTOIRE, brilliant dark pink, very large spike; one of the best.
MARCONI, light pink, large spike and flower; extra fine.
MARIE CATHERINA, deep red, large spike.
MORENO, waxy pink; large truss and bells, extra fine variety.
QUEEN OF PINKS, brilliant pink; large flower and spike; a great acquisition—One of the best.
ROBT. STEIGER, bright crimson, a fine compact spike.
ROI DES BELGES, bright scarlet, fine truss.

Single Pure and Tinted White

ALBERTINE, pure white, early, good forcing variety.
ARENTINE ARENDSSEN, pure white, large spike and flowers, very early; splendid for forcing.
BLANCHEUR, pure white, large broad truss.
BRITISH QUEEN, pure white, large truss; very early.
CORREGIO, the large, fleshy bells are snow white, and form a perfect truss of great beauty and size; good forcer.
GENERAL VETTER, bluish white, very large spike, splendid early forcer.
GRANDE BLANCHE, bluish white, large spike and flowers, early.

Single Pure and Tinted White (Cont'd)

GRANDEUR A MERVEILLE, rosy-white, large truss.
LA GRANDESSE, pure white, with immense bells, one of the best in cultivation.
L'INNOCENCE, pure white, extra large truss.

Single Blue, Lavender and Purple

CAPTAIN BOYTON, bright lavender blue, with silvery shading; handsome long spike.
ENCHANTRESS, delicate porcelain blue, large compact truss.
GRAND LILAS, silvery lilac, large compact truss.
GRAND MAITRE, deep porcelain blue, large truss.
KING OF BLUES, dark rich blue, splendid spike.
LA PEYROUSE, light blue, large bells.
MARIE, dark purple, very large spike.
PERLE BRILLIANTE, light blue, large spike and flowers; late flowering.
QUEEN OF BLUES, beautiful azure blue, large bells and handsome truss, late.
SCHOTEL, light blue, long perfect truss; early, good forcer.

Single Yellow

CITY OF HAARLEM, golden yellow, large well formed truss; extra fine.
KING OF YELLOWS, pure yellow, large bell and spike.
YELLOW HAMMER, golden yellow, fine large spike; one of the best.

The above named Hyacinths, each 15c; per doz. \$1.50; per 100 \$10.00.

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.

Select First-Size Named Double Hyacinths



WHILE double-flowering Hyacinths do not, as a rule, produce as fine spikes as the single sorts offered on page 1, yet they are exceedingly handsome and deserve extensive cultivation. The varieties listed below are those which we have found by actual tests to be the most satisfactory

We offer the following named varieties at the uniform price of.....Each, 15c; per dozen, \$1.50; per 100, \$10.00.

Double Red and Rose

CHESTNUT FLOWER, bright rose, large flower.
GROOTVORST, pink, large truss and bells.
NOBLE PAR MERITE, rose, large bells, splendid truss.
PRESIDENT ROOSEVELT, bright rose, fine spike.
PRINCE OF ORANGE, blush rose, fine spike, semi-double.

Double White

BOUQUET ROYAL, pure white, fine spike.
EDISON, blush white, fine spike, early.
LA TOUR D'AUVERGNE, pure white, very early.
LA VIRGINITE, blush white, dwarf, large bells.
QUEEN OF WHITES, pure white, large truss, fine flower.

Double Blue

BLOKSBERG, porcelain striped, large truss.
CROWN PRINCE OF SWEDEN, violet blue.
GARRICK, lilac blue, with bright blue stripe.
VAN SPEYK, porcelain blue, a grand flower.

Double Yellow

GOETHE, clear, pale yellow, large bells, fine truss.
JAUNE SUPREME, deep yellow, tinted with salmon.
SIR ROWLAND HILL, pure yellow, large spike.
SUNFLOWER, yellow, tinted salmon.

Above named Hyacinths, Each, 15c; per dozen, \$1.50; per 100, \$10.00.

Prices Per Dozen and Single Bulb Include Postage.

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.

Select Second-Size Named Single Hyacinths

THESE are smaller than our Extra Selected first-size bulbs offered on Page 1, but are fine flowering stock, and admirably adapted for pot culture and high-grade bedding where distinct shades of color are desired. We can furnish them in the following selected varieties at the uniform price of.....Each 10c; per doz., \$1.00; per 100 \$7.00.

Single Red, Rose and Pink

CARDINAL WISEMAN, charming bright rose pink, large spike.
GENERAL PELISSIER, deep crimson, fine truss, early.
GERTRUDE, deep rose, fine compact spike.
GIGANTEA, delicate pink, large bells.
MORENO, waxy pink; large truss and bells, extra fine variety.
QUEEN OF PINKS, brilliant pink, large flower and spike.
ROBT. STEIGER, bright crimson, a fine compact spike.
ROI DES BELGES, bright scarlet, fine truss.

Single Pure and Tinted White

ALBERTINE, pure white, early, good forcing variety.
ARENTINE ARENDSSEN, pure white, large spike, good forcer.
CORREGIO, pure white, large truss, good forcer.
GRANDE BLANCHE, bluish white, large spike and flowers, early.
GRANDEUR A MERVEILLE, rosy-white, large truss.
LA GRANDESSE, pure white, with immense bells, one of the best in cultivation.
L'INNOCENCE, pure white, extra large truss.

Single Blue, Lavender and Purple

ENCHANTRESS, porcelain blue, large compact truss.
GRAND MAITRE, deep porcelain blue, large truss.
KING OF BLUES, dark, rich blue, splendid spike.
LA PEYROUSE, light blue, large bells.
MARIE, dark purple, very large spike.
QUEEN OF BLUES, beautiful azure blue, large bells and handsome truss; late.
REGULUS, light blue, good forcer and bedder.

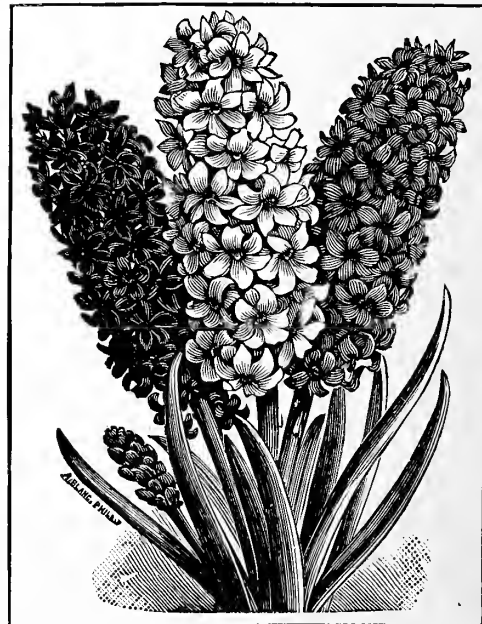
Single Yellow

KING OF YELLOWS, pure yellow, large bell and spike.
YELLOW HAMMER, golden yellow, large spike.

The above named Hyacinths, each 10c; per doz., \$1.00; per 100, \$7.00.

Prices per dozen and single bulb include postage.

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.



Choice Un-Named Hyacinths

For Bedding and Forcing, in Separate Colors and Mixed Shades

These are made up of varieties selected for beds and borders, or for forcing for cut flowers, and are of such superior quality as to be entirely satisfactory to florists who use large quantities of them.

Prices Per Dozen and Single Bulb Include Postage.

We offer the following un-named varieties at the uniform price of.....Each, 7c; per doz., 75c; per 100, \$5.00.

Single Varieties

Red, mixed shades.
Rose.
Pure White.
White, tinted.

Dark Blue and Purple.
Light Blue.
Yellow.
MIXED, all colors.

Double Varieties

Red, mixed shades
Rose.
Pure White.
White, tinted.

Dark Blue and Purple.
Light Blue.
Yellow.
MIXED, all colors.

Hyacinths--Miniature or Dutch Roman

These may be planted close together in pots or boxes, also in beds in the open ground with charming effect. We can furnish named varieties in the following colors: Dark Red, Rose and Pink, Dark Blue, Light Blue, Pure White, and All Colors Mixed.....Each, 5c; per dozen, 55c; per 100, \$3.50.

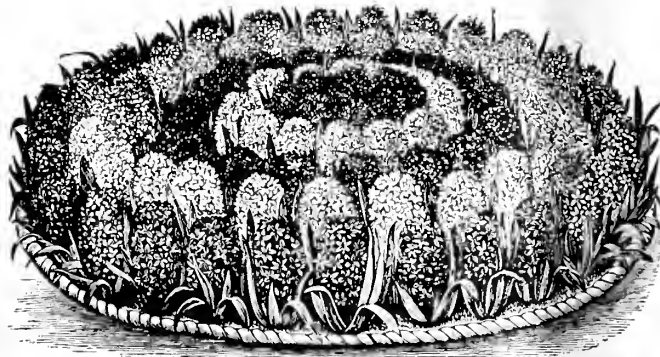
White Roman Hyacinths--Exclusively for Forcing

THESE are extensively used by florists for forcing, which may be done at a temperature of 60 degrees. The white variety flowers two to three weeks in advance of the Holland Hyacinths. The flowers are pure white and very fragrant, and each bulb will throw up from three to four spikes. For forcing, three or four bulbs are generally planted in a suitable pot, in good soil as recommended for other varieties. The pots must be kept in a cool and dark place until filled with roots, when the flower spikes can be rapidly developed by exposure to light and moderate heat.

Each, 10c; per dozen, \$1.00; per 100, \$7.50.

Round Bed of Named Single Hyacinths.

Second-Size



THIS illustration represents a bed 15 feet in circumference, or five feet across, composed of 5 circular rows, requiring a total of 100 bulbs, planted 6 inches apart, as follows:

Combination No. 1. (100 Hyacinths—select Second Size Named). Center row contains 9 red Hyacinths; second row contains 14 White Hyacinths; third row contains 20 Blue Hyacinths; fourth row contains 25 Pink Hyacinths; fifth row contains 32 Dark Blue Hyacinths.

Price \$7.00, not prepaid.

Combination No. 2. Consists of 100 Un-named Hyacinths, mixed shades that will produce a charming effect.

Price \$5.00, not prepaid.

Square Bed of Single Hyacinths

This illustration represents a bed 6 feet square, requiring a total of 169 bulbs planted 6 inches apart.

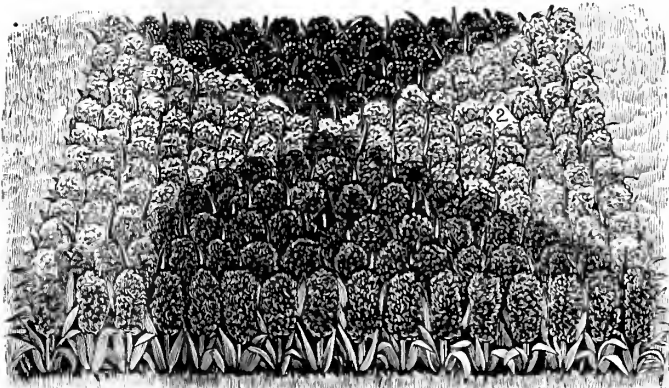
PINK AND BLUE COMBINATION requires 85 Pink and 84 Blue Hyacinths.

CRIMSON AND WHITE COMBINATION requires 85 Crimson and 84 White Hyacinths.

Price for either Combination—Our Select Second Size, Named, Hyacinths, \$11.50, not prepaid.

"Suburban Combination"

consists of 169 Choice Un-named Hyacinths, mixed shades. Price \$8.00, not prepaid.



MCCULLOUGH'S COLLECTIONS OF NAMED HYACINTHS

Special Selection for Growing in Water.

This selection is made up of sorts which are especially adapted for the purpose. For cultural notes see page 1. 12 distinct named single varieties; our selection.....\$1.50

Prices per dozen and single bulb include postage.

Persons purchasing Hyacinths at our counters, or who wish to pay their own express charges may deduct 10c per dozen from these prices when bought by the dozen.

Special Selection for Growing in Pots.

A selection of distinct sorts best adapted for the purpose. For cultural notes see page 1. 12 distinct named double varieties; our selection.....\$1.50

Darwin Tulips (May Flowering)

THE Darwin are late May-flowering garden Tulips, producing very large bowl-formed flowers of symmetrical shape, on tall, strong stems, 2 to 3 feet high, and are effective grown in groups, in the shrubbery or herbaceous border. They far surpass in color and brilliancy anything before known in Tulips. They include almost every conceivable color and shade.

	Each	Per Doz.	Per 100
ASA GRAY. Dark carmine, large, finely formed flower.....	\$0.06	\$0.50	\$3.50
BARONNE DE LA TONNAYE. (26 inches). Bright, pink margined bluish—base white, tinged blue. A long and beautiful flower.....	.06	.50	3.50
CLARA BUTT. A large flower of remarkable beauty; color soft salmon pink, shaded rose.....	.06	.50	3.50
DREAM. Beautiful delicate lilac—large globular flower.....	.06	.60	4.00
FARNCOMBE SANDERS. Immense flower of the most brilliant scarlet, one of the best and showiest.....	.06	.65	4.50
GLOW. Brilliant, glowing vermillion; blue-black base, zoned white.....	.06	.60	4.00
GRETCHEN. (Margaret). A lovely large flower of globular form; outside soft bluish; inside bluish rose.....	.06	.50	3.50
MADAME KRELAGE. Soft lilac rose, with a broad margin of bluish pink; large flower on a very tall stem; good for forcing.....	.06	.65	4.50
PAINTED LADY. Milk white, flushed heliotrope—a good bedding and forcing variety.....	.06	.50	3.50
PRIDE OF HAARLEM. Magnificently formed flower of immense size; color brilliant, deep salmon-rose, shaded with scarlet; electric blue base.....	.06	.60	4.00
THE SULTAN. Rich, glossy black maroon; one of the best dark varieties.....	.06	.50	3.50
WHITE QUEEN. A large globular flower of pure white, faintly flushed with delicate bluish.....	.06	.60	4.00
FINEST MIXED. Great variety of all colors and shades.....	.05	.45	3.00



Darwin Tulips

Breeder Tulips

BREEDERS, formerly listed among the Cottage Tulips, really form a distinct class by themselves. These unbroken forms of the old Cottage Tulips are a most interesting class of Tulips.

They have become very popular lately on account of their refined, peculiar colors and vigorous growth. The enormous flowers carried on strong stems are very effective and especially suitable for garden decoration.

APRICOT. Bronzy buff, shaded orange, large peculiar shaped flower. Each, 8c; per dozen, 85c; per 100, \$6.00.	
BRONZE QUEEN. (Clio). Delicate shade of brown, inside tinted golden bronze, beautiful tall stemmed flower of great substance, good forcer. Each, 8c; per dozen, 85c; per 100, \$6.00.	
CARDINAL MANNING. (Goliath). Dark wine red, flushed rosy bronze, very peculiar color, large flower. Each, 6c; per dozen, 65c; per 100, \$4.50.	
DOM PEDRO. A beautiful shade of coffee brown, shaded maroon, distinct attractive flower. Each, 15c; per dozen, \$1.65; per 100, \$12.00.	
GODET PARFAIT. Bright violet, a very remarkable, beautiful color, large substantial flower. Each, 10c; per dozen, \$1.00; per 100, \$7.00.	
LA SINGULIERE. (Lord Curzon). Silvery white, dark crimson, margined, very large. Each, 6c; per dozen, 65c; per 100, \$4.50.	
LOUIS XIV. Rich dark purple, shaded steel blue, heavily flushed bronze, edged golden brown, enormous size and stately bearing. Each, 40c; per dozen, \$4.00; per 100, \$25.00.	
MARIE LOUISE. Rose, flushed orange salmon, a pleasing combination of colors, very attractive. Each, 7c; per dozen, 70c; per 100, \$5.00.	
PANORAMA. Deep orange-red, shaded mahogany, large globular flower, good forcer. Each, 15c; per dozen, \$1.70; per 100, \$12.00.	
SALOMON. Lilac, shaded silvery white, white base, a magnificent tulip. Each, 25c; per dozen, \$2.25; per 100, \$16.00.	
VELVET KING. (Dreadnaught). Velvety black, enormous flower on strong stem, very showy. Each, 15c; per dozen, \$1.65; per 100, \$12.00.	
YELLOW PERFECTION. Light bronze yellow, edged golden yellow, very handsome flower. Each, 7c; per dozen, 70c; per 100, \$5.00.	

Persons purchasing Tulips at our counters, or who wish to pay their own express charges, may deduct 5c per dozen, when bought by the dozen. Prices per 100 are not prepaid.

Parrot or Dragon Tulips

VERY large flowers of singular and picturesque forms and brilliant colors; very beautiful and interesting. The petals are curiously fringed or cut. They form showy flower beds or borders, are of endless variety of form and color, stand a long time when cut, and should be grown in every flower garden in quantity.

CONSTANTINOPLE, large red flowers, tipped orange. Each, 5c; per dozen, 45c; per 100, \$3.00.	
CRAMOISIE BRILLIANT, deep crimson, with large, black, star-shaped center, extra fine. Each, 5c; per dozen, 45c; per 100, \$3.00.	
LUTEA MAJOR, large bright yellow, feathered with red and green..... Each, 5c; per dozen, 45c; per 100, \$3.00.	
PERFECTA, striped yellow and scarlet. Each, 5c; per dozen, 50c; per 100, \$3.50.	
FINEST MIXED COLORS. Each, 5c; per dozen, 40c; per 100, \$2.50.	

Home Collections of Double Tulips

Our "Home Collection No. 1" consists of fifty double-flowering Tulips carefully selected from named varieties, and will produce handsome large double flowers. Price, \$1.50; not prepaid.

"Home Collection No. 2" consists of twenty-five double and twenty-five single-flowering Tulips selected from named varieties. Price, \$1.50; not prepaid.

McCULLOUGH'S "NORWOOD" collection of DOUBLE TULIPS consists of 200 superfine, mixed double Tulips. Price, \$5.00; not prepaid.

Prices per dozen and single bulb include postage.

If you want Flowers in your House this winter or in your garden next spring, you must plant Bulbs this fall.

Double Tulips

THIS class of Tulips is one of the most valuable. The earlier varieties are admirably adapted for pot culture and form a pleasing contrast to the Single Tulips in the greenhouse or conservatory. When planted in the open border they are very showy, and a succession of bloom may be had by a judicious selection from the earlier and later varieties. The Rex Rubrorum and La Candeur form a dense mass of bloom when grown in beds and the flowers remain in perfection of bloom longer than those of the single varieties. **FOR CULTURAL DIRECTIONS, ETC., SEE TULIPS, PAGE 4.**



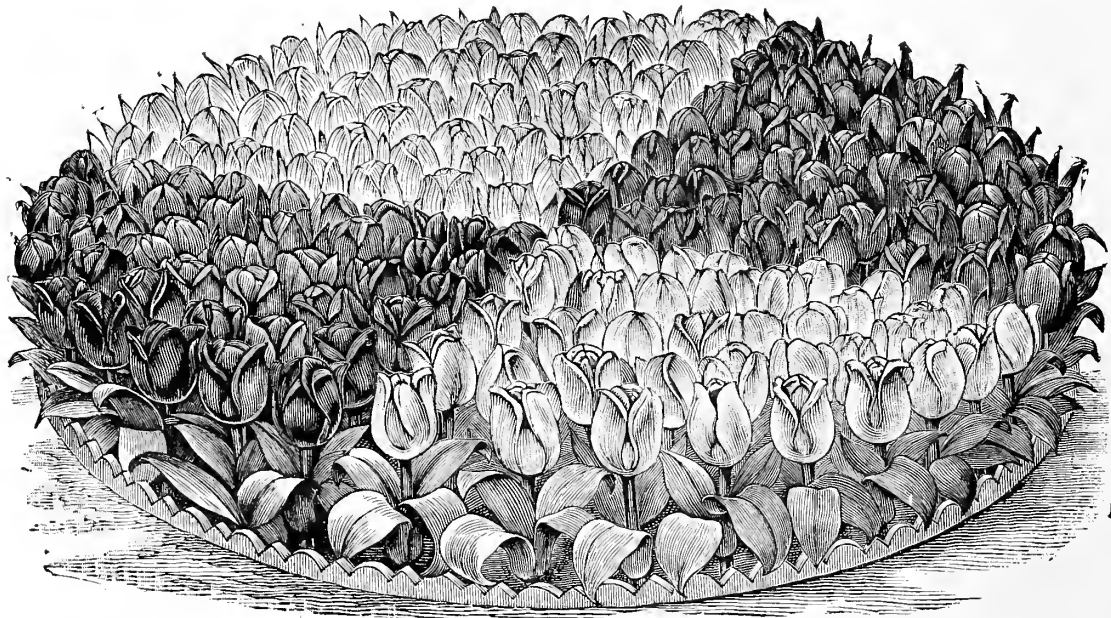
Double Tulips

- BOULE DE NEIGE**, b8, pure white, large flower; extra fine. Each, 6c; per dozen, 60c; per 100, \$3.50.
- COURONNE D'OR**, b8, golden-yellow flushed orange, large handsome flower; excellent for growing in pots or beds. Each, 6c; per dozen, 60c; per 100, \$4.00.
- DUKE OF YORK**, b8, carmine, edged white; good for bedding and late forcing. Each, 6c; per dozen, 60c; per 100, \$4.00.
- GLORIA SOLIS**, a7, deep crimson, with broad golden margin; very large. Each, 6c; per dozen, 65c; per 100, \$4.50.
- IMPERATOR RUBRORUM**, a9, rich crimson-scarlet; extra fine for forcing. Each, 6c; per dozen, 65c; per 100, \$4.50.
- LA CANDEUR**, b8, pure white, extensively grown for bedding. Each, 6c; per dozen, 50c; per 100, \$3.50.
- MURILLO**, b8, bluish-white, shaded rose, large flowers; fine for forcing and bedding. Each, 5c; per dozen, 45c; per 100, \$3.00.
- RUBRA MAXIMA**, a9, dark, crimson-scarlet; splendid early forcer and good bedder. Each, 6c; per dozen, 50c; per 100, \$3.50.
- SALVATOR ROSA**, a8, deep rose flamed with blush; a fine large double flower, suitable for early forcing or bedding. Each, 6c; per dozen, 60c; per 100, \$4.00.
- SCHOONOORD**, b10, the finest double white; a sport from Murillo. Each, 6c; per dozen, 50c; per 100, \$3.50.
- TEA ROSE**, b10, saffron-yellow, changing to rosy-apricot; good forcer for growing in pots and pans. Each, 6c; per dozen, 65c; per 100, \$4.50.
- TOURNESOL**, a7, scarlet, margined yellow; one of the best for forcing. Each, 6c; per dozen, 65c; per 100, \$4.50.
- CHOICEST MIXED**, from named varieties, extra fine. Each, 5c; per dozen, 40c; per 100, \$2.50.
- FINE MIXED**, including all colors and shades. Each, 4c; per dozen, 35c; per 100, \$2.00.

Persons purchasing Tulips at our counters, or who wish to pay their own express charges, may deduct 5c per dozen when bought by the dozen. Prices per 100 are not prepaid.

Bed of Single Early Tulips

This illustration represents a bed eighteen feet in circumference or six feet across, requiring a total of 200 bulbs planted five inches apart.



YELLOW AND SCARLET COMBINATION—100 Yellow and 100 Scarlet Tulips.

WHITE, CRIMSON, YELLOW AND PINK COMBINATION—50 White, 50 Crimson, 50 Yellow, 50 Rose Tinted Tulips. Price for either Combination—\$7.00 each; not prepaid.

The above combinations are prepared from Named Varieties that will bloom together.

McCULLOUGH'S "PREMIER" combination of SINGLE TULIPS consists of 200 superfine mixed Single Tulips, embracing a wide range of beautiful colors. Price \$5.00; not prepaid.

Narcissus or Daffodils

A BEAUTIFUL class of early blooming flowers, both for outdoor blooming and for use as cut flowers in the house. Their delicious fragrance, easy culture and thriftiness, entitles them to the greatest popularity.

The double and single sorts are perfectly hardy and need not be disturbed oftener than once in three or four years, and not then unless they have become too much crowded by offsets.

Plant in the fall in good garden soil, about three or four inches deep and two to six inches apart.

The Polyanthus varieties for flowering in pots in the house are very satisfactory. They bloom about the first of February in dense clusters, two or three flower stalks to each bulb, while the earliest of all, the Paper White, will come into bloom as early as December.

A good, natural temperature suits them best. Pot in the fall, let them root for two or three months in the dark, then remove to the conservatory or sitting room, and water as often as the soil requires moisture.

Single Narcissus

BARRI CONSPICUA. Large, broad yellow perianth; broad, short crown edged with scarlet; a robust, strong grower and free bloomer; should be grown in quantity for cutting, as it lasts longer than most sorts.

Each, 5c; per dozen, 40c; per 100, \$2.75.

BICOLOR EMPRESS. Perianth white, trumpet rich yellow, serrated at edges; a magnificent large variety, bold and erect and of rare beauty for cutting.

Each, 6c; per dozen, 60c; per 100, \$4.00.

BICOLOR GRANDIS. Flowers large with broad white perianth, the petals of which are wide and over-lapping; trumpet yellow, beautifully imbricated; a flower of great substance and fine for cutting; late flowering and valuable for succession.

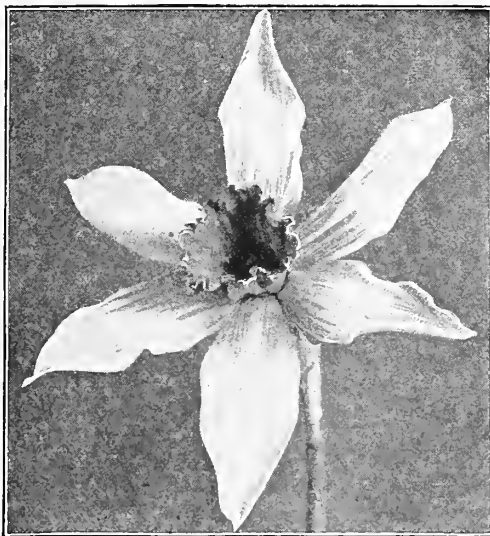
Each, 6c; per dozen, 60c; per 100, \$4.00.

BICOLOR VICTORIA. Perianth creamy white, trumpet rich yellow, delicately perfumed; a strong grower with massive flowers which stand boldly erect.

Each, 6c; per dozen, 55c; per 100, \$3.75.

EMPEROR. Perianth deep primrose-yellow, trumpet large, rich golden-yellow; one of the finest Daffodils in cultivation; should be in every collection; a magnificent flower, much prized for cutting.

Each, 6c; per dozen, 60c; per 100, \$4.00.



Narcissus Barri Conspicua

FIGARO. Perianth lemon yellow, cup yellow shaded with orange; a large and well-formed flower.

Each, 5c; per dozen, 45c; per 100, \$3.25.

GOLDEN SPUR. Perianth deep yellow, trumpet golden yellow; a charming, highly perfumed flower, flowering early and freely.

Each, 6c; per dozen, 60c; per 100, \$4.00.

MRS. LANGTRY. Pure white perianth, broad and over-lapping; cup pale primrose changing to white with age; free flowering variety.

Each, 5c; per dozen, 45c; per 100, \$3.25.

POETICUS. (Pheasant's Eye or Poet's). Flowers pure white with distinct red crown; sweet scented.

Each, 4c; per dozen, 30c; per 100, \$2.00.

POETICUS KING EDWARD VII. A magnificent, large flowering early variety with a broad, round white flower with yellow cup edged deep red.

Each, 6c; per dozen, 60c; per 100, \$4.00.

POETICUS ORNATUS. Large, pure white flowers, saffron cup, tinted with rosy scarlet; very early.

Each, 4c; per dozen, 30c; per 100, \$2.00.

PRINCEPS. Large flowers with light yellow perianth and deep yellow trumpet.

Each, 6c; per dozen, 60c; per 100, \$4.00.

SIR WATKINS. Perianth sulphur yellow, cup slightly deeper in color and tinged with orange; flowers very large and free flowering.

Each, 6c; per dozen, 60c; per 100, \$4.00.

STELLA. Perianth white and slightly twisted, yellow crown; flowers large, free blooming and one of the best for naturalizing.

Each, 5c; per dozen, 45c; per 100, \$3.00.

TRUMPET MAJOR. Flowers large and of uniform deep golden yellow; comes into bloom early and is excellent for forcing, bedding or naturalizing.

Each, 6c; per dozen, 60c; per 100, \$4.00.

VON SION SINGLE. Large flowers of rich yellow color; an excellent sort for forcing, bedding or naturalizing.

Each, 6c; per dozen, 60c; per 100, \$4.00.

Prices per dozen and single bulb include postage.

Double Narcissus

ALBA PLENA ODORATA. The double Poeticus; flowers pure white, large and very fragrant, one of the finest for all purposes.

Each, 5c; per dozen, 45c; per 100, \$3.00.

INCOMPARABLE. Pale yellow and orange mixed, full double flower, large, varying somewhat in shade like the single variety, from pale citron yellow to deep orange.

Each, 6c; per dozen, 60c; per 100, \$4.00.

ORANGE PHOENIX. Large double white, with orange segments in the center.

Each, 6c; per dozen, 60c; per 100, \$4.00.

SILVER PHOENIX. Largest of the Double Narcissus; pale creamy white with sulphur, delicate fragrance; fine for cutting or for decorating purposes.

Each, 6c; per dozen, 60c; per 100, \$4.00.

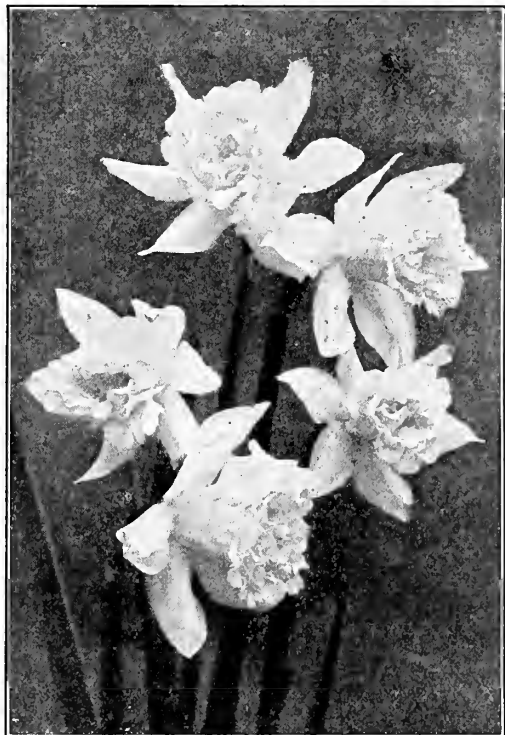
VON SION. The famous 'Old Double Yellow Daffodil,' rich, golden yellow perianth and trumpet; one of the best forcing sorts.

Each, 6c; per dozen, 60c; per 100, \$4.00.

VON SION. SELECTED EXTRA LARGE. True Northern grown Dutch Bulbs.

Each, 8c; per dozen, 80c; per 100, \$6.00.

Prices Per Dozen and Single Bulb Include Postage.



Narcissus Double Von Sion

Persons purchasing Narcissus at our counters or who wish to pay their own express charges may deduct 5c per dozen from these prices when bought by the dozen. Prices per 100 not prepaid.

Narcissus Poetaz Hybrids

THESE new hardy cluster-flowered hybrids between Poeticus and Polyanthus are healthy, strong and tall growers, some of the varieties attaining a height of 2 feet. The flowers are more like Poeticus in character, but are borne in clusters like the Polyanthus. Planted in permanent quarters they form large, luxuriant clumps.

ALSACE, very early flowering, color—pure white with yellow cup faintly edged red on opening.....Each, 7c; per dozen, 65c; per 100, \$5.00.

ELVIRA, pure white with yellow eye, large flower of good substance, 3 to 4 flowers on a stem; strong grower.....Each, 7c; per dozen, 65c; per 100, \$5.00.

IDEAL, pure white with dark orange eye, large truss of 6 to 7 flowers; beautiful color.....Each, 7c; per dozen, 65c; per 100, \$5.00.

IRENE, sulphur yellow, changing to light yellow, orange eye; large broad truss bearing 8 to 9 flowers.....Each, 7c; per dozen, 65c; per 100, \$5.00.

TRIUMPH, perianth white, with yellow eye, the largest flowers of this section, 3 to 4 flowers on a stem.....Each, 7c; per dozen, 65c; per 100, \$5.00.

Polyanthus Narcissus

BEAUTIFUL, free flowering, deliciously sweet scented flowers of the easiest culture; suitable for forcing or for growing in water in the same way as the Chinese Sacred Lilies. Their tall spikes of bloom, bear from 6 to 12 flowers each. If planted in open borders, they must be well protected by a covering of litter.

PAPER WHITE GRANDIFLORA. An improved large flowering form of the Paper White, possessing all the good qualities of that popular and easily-grown variety. It is more vigorous and earlier, producing pure white flowers of large size and good substance in large trusses. Is largely used for early forcing for cut flowers, being brought in without difficulty early in December. Can be grown in bowls of water and pebbles the same as Chinese Lilies.

Selected Bulbs. Each, 6c; per dozen, 60c; per 100, \$3.50.

Mammoth Bulbs, of special value for growing in water. Each, 7c; per dozen, 65c; per 100, \$5.00.

GRAND MONARQUE, pure white flower of largest size, with yellow cup; borne on large heads. Each, 8c; per dozen, 80c; per 100, \$5.00.

GRAND SOLIEL D'OR, rich yellow flower with orange cup.....Each, 10c; per dozen, \$1.00; per 100, \$7.50.

GLORIOSA, white with orange cup. Each, 8c; per dozen, 80c; per 100, \$5.00.

MONT CENIS. A splendid large flowered variety having broad round over-lapping petals of white, and large rich yellow cup; of compact growth, carrying large clusters of flowers. Each, 8c; per dozen, 80c; per 100, \$5.00.



Narcissus Paper White Grandiflora

MIXED POLYANTHUS NARCISSUS.

Each, 6c; per dozen, 60c; per 100, \$3.50.

Persons purchasing Narcissus at our counters or who wish to pay their own express charges may deduct 5c per dozen from these prices when bought by the dozen.

Prices per 100 not prepaid.

IF YOU WANT FLOWERS

In your House this Winter or in your garden next Spring — YOU MUST PLANT BULBS THIS FALL

Crocus

THIS brilliant and universally admired spring flower will thrive in any soil or situation, but to be brought to the highest perfection it should be grown in an open bed or border of deep, rich, sandy loam. When planted in large groups or lines of distinct colors, the effect is very striking and the bulbs are now offered so cheap as to justify their liberal use. They are invaluable for pot culture. To secure a succession of blooms commence planting early in October; 6 or 8 bulbs in a pot (the named varieties are best for this purpose), using rich soil and planting about an inch deep. Place the pots on a surface of ashes, cover the top one inch deep with soil until the leaves appear, when they may be removed to the house.

LARGE FLOWERING NAMED CROCUS

THESE are large bulbs of the best varieties, remarkable for richness of color and size of their flowers, and are the best to use for pot culture or where extra fine results are wanted.

	Per Doz.	Per 100
ALBION , lavender striped white and violet.....	\$0.25	\$1.50
BARON BRUNOW , purplish mauve, shading to deep purple at tips.....	.25	1.50
KING OF BLUES , light blue, large flower.....	.25	1.50
KING OF WHITES , pure white; extra large flower.....	.25	1.50
LA MAJESTEUSE , violet striped white; large flower.....	.25	1.50
MAMMOTH WHITE , pure white; extra large flower.....	.25	1.50
MAMMOTH YELLOW , large golden yellow.....	.30	2.00
MONT BLANC , large, pure white; extra.....	.25	1.50
NON PLUS ULTRA , light blue, with white border.....	.25	1.50
PRINCE ALBERT , dark blue; extra fine.....	.25	1.50
SIR WALTER SCOTT , white, striped with violet.....	.25	1.50

MIXED CROCUS

The bulbs offered under this head are smaller than our Large Flowering Named Sorts, but are quite satisfactory for planting in the grass or for any position out of doors.

	Per Doz.	Per 100
Large White	\$0.20	\$1.00
Large Yellow.....	.20	1.00
Extra Large Yellow.....	.25	1.50
Large Blue and Purple.....	.20	1.00
Striped and Variegated.....	.20	1.00
Mixed, All Colors.....	.20	1.00



Crocus

Prices on Crocus include postage. Customers may deduct 3c per doz.; 10c per 100; if sent by express at their expense.



Chinese Sacred Lily

It is not absolutely necessary to put the bulb in the dark, but, if shaded until the leaves begin to grow, better results may be obtained. By making a small incision across the top of the bulb, in two or three places, about three-quarters of an inch from the center it will cause a fresh lot of leaves and flower stalks to start from these points. This must be done with care, so as not to injure the bulb—simply cut the skin. For a window ornament they are unexcelled, and lend to an interior a cheerful aspect when all outside is frostbound and dreary. The effect is heightened when several are put in a large dish. They can be planted at different times, and have a succession of flowers all winter. Flowers often double and single from the same bulb.

SELECT BULBS...... Each, 15c; (if by mail, 20c each); by express not prepaid, per dozen, \$1.60.

MAMMOTH BULBS...... Each, 20c; (if by mail 25c each); by express not prepaid, per dozen, \$2.25.

Original baskets containing 30 bulbs, \$4.50.

LILY BOWLS. For Chinese Sacred Lilies and Polyanthus Narcissus: Imitation cut glass, to hold one bulb, each, 25c; for 3 bulbs, 30c.

PEBBLES, for filling Lily Bowls, per quart, 10c.

Freesia

THIS is one of the most popular and charming bulbs we offer for pot culture, flowering in the winter and spring, in the conservatory or window garden. Six bulbs should be planted in a four inch pot. They force readily, and can be had in bloom by Christmas if desired. The flowers are produced six to eight on stems about nine inches high, and are particularly useful for cutting, remaining in good condition, kept in water, for two weeks; the flowers are pure white, with a yellow blotched throat, and are exquisitely fragrant.

IMPROVED PURITY. A distinct and greatly improved type producing large sprays of pure white flowers of immense size and delicious fragrance. It is very free blooming and of great value for forcing for cut flowers.

Large Bulbs...... Per dozen, 30c; per 100, \$1.75.

Mammoth Bulbs...... Per dozen, 40c; per 100, \$2.50.

Jonster Bulbs...... Per dozen, 50c; per 100, \$3.50.

RAINBOW. We can now supply this long waited for, beautifully colored Freesia. Limited quantity in following colors:

Lavender and Pink, Large Bulbs.

Per dozen, 60c; per 100, \$4.00.

RAINBOW. Finest mixed, all colors.

Per dozen, 50c; per 100, \$3.50.

Iris Spanish (Iris Hispanica)

AMERICAN GROWN

THESE have appropriately been called "the Orchids of the Hardy Flower Garden." They are of the simplest culture, succeeding in almost any soil or position. The bulbs should be planted 2 to 3 inches deep and 6 inches apart, early enough in the autumn to allow them to make some growth before hard frost comes. For best effect they should be planted in beds or groups of 25 to 100 or more bulbs—the larger the number the finer the effect. They flower in June, and the bulbs may either be lifted or allowed to remain for another season.

Named Varieties in following colors: Dark Blue, Light Blue, White, Bronze and Yellow, White and Yellow.

Each, 8c; per dozen, 75c; per 100, \$5.00.

Jonquils

EXCELLENT for early blooming. Charming, large, golden and deliciously odoriferous flowers, freely produced, of the finest effect either in garden, greenhouse or conservatory. May be successfully grown by everyone. Put six in a five-inch pot and treat same as Hyacinths.

	Each	Per Doz.	Per 100
CAMPERNELLE RUGULOSUS DOUBLE-FLOWERING, a double form of the large flowering Campernelle; a novelty of great merit.....	\$0.05	\$0.40	\$2.75
DOUBLE, fine golden yellow, very fragrant.....	.05	.40	2.50
CAMPERNELLE, single, golden yellow, very large and fragrant.....	.05	.40	2.50
ODORUS RUGULOSUS, large flowering, deep yellow, crinkled flowers, exceedingly fragrant and very desirable for forcing or open garden.....	.05	.40	2.75
SINGLE, sweet scented, deep yellow.....	.05	.40	2.50

Chinese Sacred Lily or Oriental Narcissus

ALL orders should include these bulbs, as they have become most popular through their own merits, flowering in water and gravel in five to six weeks from time of planting.

They grow well in pots of soil, but the most popular way of blooming them is as follows:

Put about one inch of sand in a shallow bowl, or similar vessel, about four inches deep; place the bulb on this and pack it firmly with small pebbles or pieces of rock; then fill it with water to the top of pebbles and place in a warm sunny window. The bulb will at once commence a rapid growth and bloom in five or six weeks. Add fresh water as often as necessary.



Freesia, Improved Purity

Lily of the Valley

PLANT in a shady place where they will not be disturbed for several years.

Clumps. For out of door planting.

Each, 35c; per dozen, \$3.50.
Can only be sent by express or freight at purchaser's expense.

IF YOU WANT FLOWERS
In your House this Winter or in your garden
next Spring
YOU MUST PLANT BULBS THIS FALL

Lilies

NO CLASS of plants capable of being cultivated out of doors possesses so many charms. Rich and varied in color, stately and handsome in habit, profuse in variety, and of delicious fragrance, they stand out prominently from all other hardy plants, and no herbaceous border, however select, should be without a few of its best sorts. With a well selected collection, Lilliums may be had in bloom from June till October.

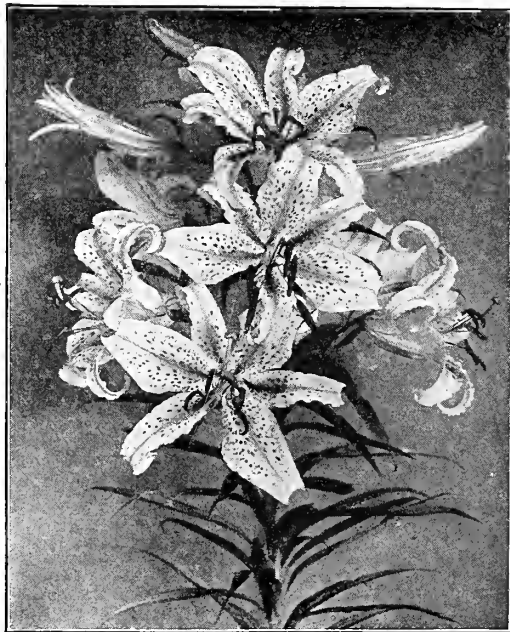
Culture.—They should be planted in good, rich, loamy soil, abundantly mixed with very rotten cow manure. Plant about four inches deep, and during the winter it is advisable to cover the surface of the bed with a thin layer of manure, which will not only afford a slight protection to the bulbs, but will materially enrich the soil. In spring the manure may either be removed or dug in between the rows.

Pot Culture.—The best soil to use is a rich loam, with the addition of one-third well-rotted manure. Select a large sized pot, say eight or ten inches, so as to allow of deep planting—a most essential matter where there are upper roots to protect. Dust a little charcoal about the bulb to keep it fresh, and cover at least two inches with soil.

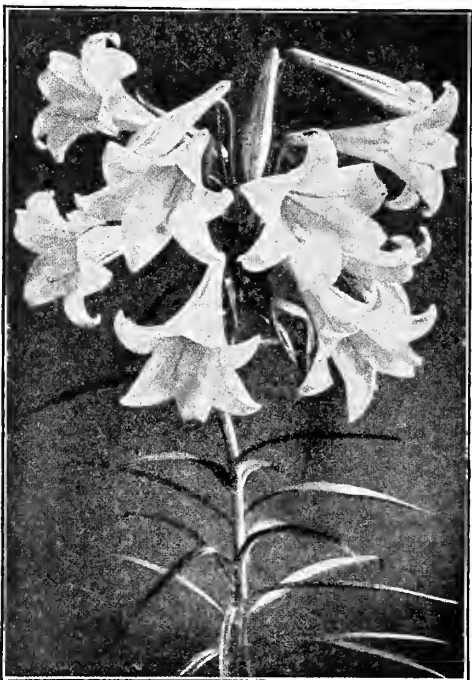
After potting, one of the most important things to observe is the proper placing of the pots containing the bulbs. Like all other bulbs, to get the best results in flowering, the pots must be filled with roots before the top starts to grow; and to do this, they must be placed in some cool place and excluded from the light, until, on examination the roots are found to be formed around the ball of earth.

Orders for Lilies cannot be filled before November, excepting for *Candidum* and *Harrisii*, which are ready, August 1.

Prices on single bulbs are postpaid. By the dozen or hundred, they will be forwarded at expense of purchaser.



Lillium Auratum



Lillium Longiflorum Giganteum

with pink, with a beautiful shade of canary-yellow at the centre, extending part way up the trumpet. It is delightfully perfumed but without the heavy, oppressive odor of most lilies. Each, 75c; per dozen, \$7.50.

SPECIOSUM. "Japan Lily." The varieties of this class are magnificent border plants, and also excellent for pot culture. All are perfectly hardy, and are among the most satisfactory Lilies to grow.

SPECIOSUM. ALBUM. Pure white, very fragrant. . . . Large Bulbs, 8 to 9 in., each 35c; per doz., \$3.50; per 100, \$25.00. Extra Large Bulbs, 9 to 11 inches, each 40c; per doz., \$4.50; per 100, \$35.00.

SPECIOSUM. RUBRUM or ROSEUM. White, suffused and spotted with crimson. Large Bulbs, 8 to 9 inches, each 35c; per doz., \$3.50; per 100, \$25.00. Extra Large Bulbs, 9 to 11 inches, each 40c; per doz., \$4.50; per 100, \$35.00.

TIGRINUM. "Tiger Lily." Orange salmon, spotted with black. Each, 25c; per doz., \$2.25; per 100, \$17.50.

TIGRINUM FLORA PLENO. "Double Tiger Lily." This is a plant of stately habit, bearing an immense number of double, bright orange-red flowers, spotted with black, 3 to 5 feet. August. . . Each 25c; per doz., \$2.50; per 100, \$20.00.

If you contemplate making a Lily bed, kindly give us dimensions of same, and we will be pleased to submit you an estimate, stating suitable varieties and lowest cost.

AURATUM. (Golden-banded Lily). Undoubtedly one of the finest. Its large, graceful, fragrant flowers are composed of six petals of a delicate ivory-white color, thickly studded with chocolate crimson spots, and striped through the centre with a golden-yellow band; 3 to 5 feet.

Large Bulbs, 8 to 9 inches, each, 25c; per dozen, \$2.50; per 100, \$20.00.

Extra Large Bulbs, 9 to 11 inches, each, 40c; per dozen, \$4.50; per 100, \$35.00.

CANDIDUM. (Annunciation or Madonna Lily). The flowers are pure white and very fragrant, borne on long stems. To succeed with it, it should be planted early in the autumn, so that it can make some growth before frost; 3 to 4 feet; May-June.

Extra Large Bulbs, each 25c; per doz., \$2.25; per 100, \$17.50.

HARRISII. (Bermuda Easter Lily). This splendid Lily is undoubtedly one of the best for house culture, as it comes quickly into bloom and flowers freely. The flowers are trumpet-shaped, pure waxy-white and delightfully fragrant.

Large Bulbs, 5 to 7 inches, each 25c; per doz., \$2.25; per 100, \$17.50.

Extra Large Bulbs, 7 to 9 inches, each 50c; per doz., \$4.50; per 100, \$35.00.

HENRYI, a splendid lily from the mountains of China. It grows 4 to 5 feet high, producing large panicles of orange-yellow flowers, banded with green. Each, 60c; per doz., \$5.00.

LONGIFLORUM FORMOSUM. The plants grow about 3 feet high and produce beautiful, snow white, trumpet-shaped flowers, 6 to 8 inches long. It is perfectly hardy, blooming in the open in June and July. This Lily is also a very important winter flowering type.

Large Bulbs, 7 to 9 inches, each 40c; per doz., \$4.25; per 100, \$30.00.

LONGIFLORUM GIGANTEUM. A splendid type, later flowering than the others but of strong, free, healthy growth, and while it can be forced into bloom for Easter it is just the thing for Decoration Day and later flowering; quite hardy and good for outdoor planting.

Large Bulbs, 7 to 9 inches, each 35c; per doz., \$3.50; per 100, \$25.00.

REGALE (The Regal Lily). This grand new species is acknowledged to be the finest Lily in cultivation and is undoubtedly the most popular novelty that has been offered for many years. It is absolutely hardy and is excellent for forcing under glass. The white flowers are long, trumpet-shaped, slightly suffused

with pink, with a beautiful shade of canary-yellow at the centre, extending part way up the trumpet. It is delightfully

perfumed but without the heavy, oppressive odor of most lilies. Each, 75c; per dozen, \$7.50.

SPECIOSUM. "Japan Lily." The varieties of this class are magnificent border plants, and also excellent for pot culture.

All are perfectly hardy, and are among the most satisfactory Lilies to grow.

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TIGRINUM FLORA PLENO. "Double Tiger Lily." This is a plant of stately habit, bearing an immense number of

double, bright orange-red flowers, spotted with black, 3 to 5 feet. August. . . Each 25c; per doz., \$2.50; per 100, \$20.00.

Calla Lilies (Richardia)

An old favorite, and of easy culture, the only requisite for successful culture being rich soil and plenty of water when growing. By allowing them to rest through the summer, an abundance of bloom may be had the following winter.



White Calla or Lily of the Nile.

This old favorite is too well known to require any description.

Monster Bulbs, postpaid.

Each, 30c; per dozen, \$3.00.

Extra Large Bulbs, postpaid.

Each, 20c; per dozen, \$2.00.

Large Bulbs, postpaid.

Each, 15c; per dozen, \$1.50.

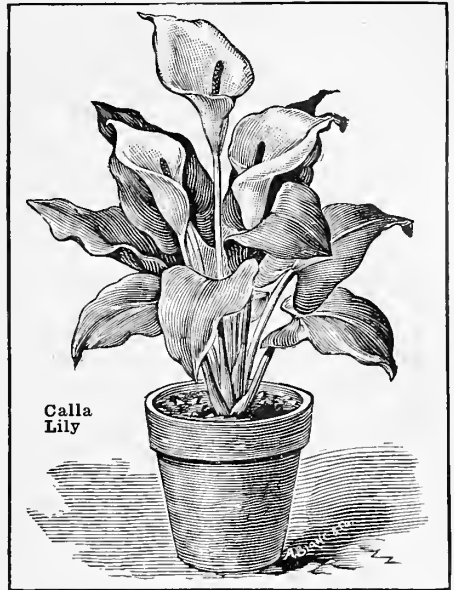
Burbank's Golden Hybrid. A yellow Calla of great beauty. It has the habit of growth of the white variety, with flowers of same size and shape but of a rich golden-yellow color; the foliage is dark green, with a number of creamy-white spots, which add much to its beauty.

Each, 50c; per dozen, \$5.00.

Godfrey or Everblooming Calla.

Short, sturdy growth; very free flowering; medium sized white flowers; excellent for cutting.

Each, 20c; per dozen, \$2.00.



Calla
Lily

Hyacinth Glasses Hyacinth Glasses and Lily Bowls CAN NOT be sent by mail

BELGIAN or TALL SHAPE—Blue, Claret, Crystal and Green Colors.....Each, 35c; per dozen, \$3.50.
LILY BOWLS—For Chinese Sacred Lilies and Polyanthus Narcissus. Imitation Cut Glass—to hold 3 Bulbs.

Each, 30c; for 5 Bulbs, each, 35c.

MATT GREEN LILY BOWLS—To hold 2 bulbs, each, 35c; for 3 bulbs, 40c; 4 bulbs, 50c; 6 bulbs, 75c.

PEBBLES—For filling Lily Bowls, 10c per quart.

McCullough's Selected Flower Seeds

FOR FALL AND WINTER SOWING

On the following pages we give a list of the **Best Hardy Perennials** which are now so deservedly popular. Sown this fall in a cold frame or protected corner of the garden, you can have, with little trouble, an abundant supply of Columbines, Canterbury Bells, Delphiniums, Foxgloves, Gaillardias, Hollyhocks, Forget-me-nots, Daisies, Sweet Williams, etc., etc., the following season. The list also includes a choice selection of other Flower Seeds for autumn sowing, such as Cyclamens, Pansies, Primulas, etc.

Discount on Packet Flower Seeds. For 25 Cents select 6 Five-cent, or 3 Ten-cent pkts. For 50 Cents select Packets to the amount of \$1.30. For \$2.00 select Packets to the amount of \$2.65. For \$3.00 select Packets to the amount of \$4.00. **FULL CULTURAL DIRECTIONS ON EACH PACKET. WE PAY THE POSTAGE.**

ABUTILON. (Chinese Bell Flower). Finest mixture. *Half-hardy Perennial*.....10c pkt.

LYSSUM, Sweet. Of trailing habit; flowers white. *Hardy Annuals*..... $\frac{1}{4}$ oz., 10c; oz., 25c; 5c pkt.

ALYSSUM, Little Gem, or Carpet of Snow. Dwarf compact habit; pure white flowers. $\frac{1}{4}$ oz., 15c; oz., 50c; 5c pkt.

ANTIRRHINUM. (Snapdragon). *Half-hardy Perennials.* **TALL, GIANT FLOWERING**

Brilliant. Scarlet, gold and white.....10c pkt.

Fire King. Scarlet with orange.....10c pkt.

Golden King. Golden-yellow flowers.....10c pkt.

Queen Victoria. Flowers white, shaded cream. 10c pkt.

Venus. Light rose, white throat.....10c pkt.

Tall Giant Mixed. A splendid mixture, containing all the colors. $\frac{1}{4}$ oz., 30c; oz., \$1.00; 5c pkt.

SEMI-DWARF GIANT FLOWERING

Silver Pink. Delicate rosy-pink.....10c pkt.

Queen of the North. Large white flowers.....10c pkt.

Daphne. Soft blush-pink.....10c pkt.

Golden Queen. Pure yellow, very fine.....10c pkt.

Firebrand. Rich deep red.....10c pkt.

Half-Dwarf Mixed. Large variety of colors; best for bedding..... $\frac{1}{4}$ oz., 20c; 5c pkt.

AQUILEGIA, OR COLUMBINE. *Hardy Biennials.*

Coerulea Hybrid, "Rose Queen".....Large, long-spurred flowers, shading from light pink to dark rose with white center and yellow anthers. 3 pkts., 25c; 10c pkt.

McCullough's Long-Spurred Hybrids. Blue, white, yellow, orange, scarlet and bright rose-pink in large flowers with long spurs. 3 pkts., 25c; 10c pkt.

Double, all colors, mixed...... $\frac{1}{4}$ oz., 20c; 5c pkt.

Single, all colors, mixed...... $\frac{1}{4}$ oz., 20c; 5c pkt.

BELLIS. (English Daisy). *Half-hardy Perennials.*

Longfellow. Large, double, dark pink.....10c pkt.

Snowball. Double white flowers.....10c pkt.

Giant Double Mixed. Extra fine mixture.....10c pkt.

CALCEOLARIA, Hybrid, Grandiflora. Large flowers of fine form, rich colors, beautifully spotted and marbled; finest strain in cultivation. *Greenhouse Perennial.* 25c pkt.

CAMPANULA, (Canterbury Bells). *Hardy Biennials.*

Calycanthema. (Cup and Saucer Canterbury Bells.)

Pink. Delicate rosy-pink.....10c pkt.

Blue. A fine clear shade.....10c pkt.

White. Pure white.....10c pkt.

Finest Mixed. All colors of the Cup and Saucer type..... $\frac{1}{4}$ oz., 50c; 5c pkt.

Medium. (Single Canterbury Bells.)

Single Mixed. All colors..... $\frac{1}{4}$ oz., 25c; 5c pkt.

Double Mixed. All the double-flowering medium varieties..... $\frac{1}{4}$ oz., 40c; 5c pkt.

CANDYTUFT. *Hardy Annuals.*

Giant Hyacinth Flowered. Pure white flowers, in a pyramid of bloom... $\frac{1}{2}$ oz., 25c; oz., 40c; 5c pkt.

Little Prince. Very large heads of pure white flowers; fine for borders and pots; 6 inches.....5c pkt.

Rose Cardinal. Bright carmine-rose.....5c pkt.

White Rocket. Pure white.....Oz., 25c; 5c pkt.

Dwarf Hybrids Mixed......5c pkt.

Mixed Colors...... $\frac{1}{2}$ oz., 15c; Oz., 25c; 5c pkt.

Sempervirens. A white-blooming plant, coming in flower early in the spring; much used for cemeteries, rockeries, etc., 1 foot. *Hardy Perennial*.....5c pkt.

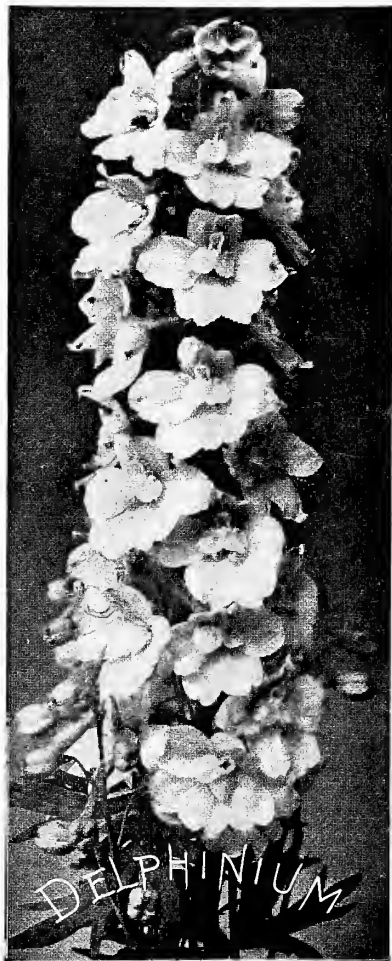
CARNATION. *Half-hardy Perennials.* Indispensable both for greenhouse culture in winter and the garden in summer.

Earliest French Mixed...... $\frac{1}{4}$ oz., 50c; 10c pkt.

Marguerite. Is best for summer flowering. Finest mixed; excellent for cutting... $\frac{1}{4}$ oz., 50c; 5c pkt.

FLOWER SEEDS—Continued

- CINERARIA, Hybrida Grandiflora.** Large flowering exhibition varieties embracing the richest and most varied, showy and attractive colors. *Greenhouse or Tender Annual*. **25c pkt.**
- COREOPSIS, Lanceolata Grandiflora.** Bright golden-yellow flowers with broad fringed petals on long stems; excellent for cutting. *Hardy Perennial*. $\frac{1}{4}$ oz., **25c; 10c pkt.**
- CYCLAMEN, Giant-Flowered.** (*Persicum Giganteum*). A popular pot-plant for winter and spring-flowering. Seedlings bloom in eight to ten months. *Greenhouse Perennial*. Best strains, mixed. **25c pkt.**
- DELPHINIUM, (Hardy Perennial Larkspur).** *Hardy Perennials*.
- Chinese Varieties, Mixed.** Contain a great variety of shades, from pure white to gentian-blue. **5c pkt.**
- Elatum** (Bee Larkspur.) Rich deep blue, free bloomer, 4 feet. . . **5c pkt.**
- Formosum.** Beautiful spikes of brilliant rich blue flowers with a white center, 2 $\frac{1}{2}$ feet. . . . **5c pkt.**
- Giant-Flowering Hybrids.** These magnificent Hybrids, produce beautiful spikes of immense flowers, single, semi-double and double. Flower spikes are from 2 to 3 feet in length. Colors are beautiful, ranging from pure white through all shades of lavender and blue. (See cut.) **10c pkt.**
- DIANTHUS, Plumarius Fl. Pl.** (*Double Hardy Garden Pinks*). Double and semi-double varieties in beautiful colors. **10c pkt.**
- Plumarius Semperflorens.** (*Ever-blooming Hardy Garden Pink*). Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors. **10c pkt.**
- DIANTHUS BARBATUS.** (See Sweet William.)
- DIGITALIS** (Foxglove.) *Hardy Biennial*. A splendid strain; 3 to 5 feet. **10c pkt.**
- Gaillardia, Grandiflora** (*Blanket Flower*). The flowers are of enormous size and the colors the most varied; in flower for about three months. *Hardy Perennial*. 2 feet. **5c pkt.**
- HIBISCUS** (*Marshmallow*). **Mallow Marvels.** Immense flowers from 8 to 10 inches in diameter, in following colors; fiery-crimson, blood-red, shell-pink and white. *Hardy Perennial*. **10c pkt.**
- HOLLYHOCK.** For planting among shrubbery or forming a background for other flowers, it is without an equal. *Hardy Perennials*.
- Chater's Double Pink.** . . . **10c pkt.**
- Chater's Double Scarlet.** . . **10c pkt.**
- Chater's Double White.** . . . **10c pkt.**
- Chater's Double Yellow.** . . . **10c pkt.**
- Chater's Prize, Double Mixed.** Unrivalled in richness and delicacy of coloring. 3 pkts., **25c; 10c pkt.**
- Ever-blooming.** Double and semi-double flowers. Colors vary from white to blood-red and black. **10c pkt.**
- Mammoth Fringed Allegheny.** Mammoth flowers; the colors range from the palest shrimp-pink to deep red. 6 to 7 feet. 3 pkts., **25c; 10c pkt.**
- LATHYRUS, (Everlasting, or Hardy Pea).** Free-flowering climbers; continually in bloom; fine for cutting. *Hardy Perennials*.
- Latifolius "White Pearl."** The finest white. . . **10c pkt.**
- Pink Beauty.** Rosy-pink. . . . **10c pkt.**
- Mixed.** All colors. $\frac{1}{4}$ oz., **15c; 10c, 40c; 5c pkt.**
- MIGNONETTE, (Reseda).** *Half-hardy Annuals*.
- Allen's Defiance.** Enormous spikes, with individual florets of immense size; fragrant; excellent for forcing. $\frac{1}{4}$ oz., **20c; 10c pkt.**
- Machet.** Dwarf pyramidal growth, large spikes; fragrant; one of the best for forcing. . . . $\frac{1}{4}$ oz., **20c; 10c pkt.**
- MYOSOTIS, (Forget-me-not).** *Half-hardy Perennials*.
- Alpestris Victoria.** Early flowering, of bushy habit, bearing large, bright, azure-blue flowers. . . . **10c pkt.**
- Palustris.** The true Forget-me-not; beautiful blue flowers; 6 inches. **10c pkt.**
- Palustris Semperflorens.** A dwarf Forget-me-not continuing in bloom from early spring until autumn; blue flowers. **10c pkt.**
- PANSY.** Pansy seed has always been a leading specialty with us. The stocky young plants grown in fall and winter produce the largest and finest flowers early the following spring. Take care of the weakest looking seedlings, as they usually give the finest flowers. *Half-hardy Perennials*.
- MASTODON PANSIES**
A new strain of American Grown
Mammoth Flowering Varieties
- Adonis.** Light blue flowers, marked with a yellowish-white face and large dark blotches. . . $\frac{1}{8}$ oz., **\$1.00; 25c pkt.**
- Blue Perfection.** The best dark blue, flowers of immense size. . . $\frac{1}{8}$ oz., **\$1.00; 25c pkt.**
- Candidissima.** The finest and largest pure white flowers. $\frac{1}{8}$ oz., **\$1.00; 25c pkt.**
- King of the Blacks.** Flowers of immense size, nearly all jet black and velvety in substance. . . $\frac{1}{8}$ oz., **\$1.00; 25c pkt.**
- Madame Perrett.** Colors are dark wine, pink and red, with edges of petals frilled and bordered white. . . $\frac{1}{8}$ oz., **\$1.00; 25c pkt.**
- Meteor.** Flowers a beautiful shade of wine-red; very free bloomer. . . $\frac{1}{8}$ oz., **\$1.00; 25c pkt.**
- Panama Pacific.** Flowers of immense size, deep yellow. . . . $\frac{1}{8}$ oz., **\$1.00; 25c pkt.**
- Bugnot's, Finest Mixed.** . . . $\frac{1}{8}$ oz., **75c; 20c pkt.**
- Odier's, Finest Mixed.** . . . $\frac{1}{8}$ oz., **75c; 20c pkt.**
- Trimardeau Giant, Finest Mixed.** . . $\frac{1}{8}$ oz., **60c; 15c pkt.**
- McCullough's "Premier."** This strain is saved from the finest flowers from the best growers of pansies. The plants are compact and of robust growth. Florists and amateurs desiring charming "show" flowers should not neglect this strain, as it is the result of many years careful selection and hybridization. . . $\frac{1}{8}$ oz., **\$1.00; 1/4 oz., \$1.75; 25c pkt.**
- McCullough's Special Mixture.** A superior mixture selected from choice, large flowering strains of English, French and other European growers. . . $\frac{1}{8}$ oz., **60c; 1/4 oz., \$1.00; 15c pkt.**
- Fine Mixture of Bedding Pansies.** The old-fashioned Pansies. Our mixture contains all the most showy and distinctly marked varieties. For freedom of bloom none surpass them. . . $\frac{1}{8}$ oz., **15c; 1/4 oz., 25c; 5c pkt.**
- PETUNIA, Hardy Annuals. Double.**
- Grandiflora Mixed.** Choicest strains of fine colors and large flowers. **25c pkt.**
- Single.** **McCullough's Mammoth.** The finest mixture of petunias procurable. 3 pkts., **50c; 20c pkt.**
- PHLOX DECUSSATA, Hardy Perennial.**
- Mixed.** In the greatest variety of colors. 3 feet. . . $\frac{1}{4}$ oz., **60c; 10c pkt.**
- POPPY, Hardy Perennials. Iceland.** (*Papaver Nudicaule*). Of neat habit, with bright green, fern-like foliage, formed in tufts, bearing brilliant flowers in endless profusion on slender stalks about 12 inches high.
- Finest Mixed.** All colors. $\frac{1}{4}$ oz., **25c; 5c pkt.**
- ORIENTALE.** (The large Oriental Poppy). Large, deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy. . . $\frac{1}{4}$ oz., **25c; 5c pkt.**
- Oriental Hybrids.** Produce flowers of immense size and of many novel colors, such as salmon, pink, cherry, etc. . . $\frac{1}{4}$ oz., **50c; 10c pkt.**



Delphinium Giant Hybrid

FLOWER SEEDS—Continued

PRIMULA. They are one of the most important winter-blooming pot plants in the home or conservatory.

Chinensis Fimbriata. Finest mixed. All colors. 20c pkt.

Forbesi. (Baby Primrose). Rosy-lilac flowers, fine for pots. 3 pkts., 25c; 10c pkt.

Malacoides. A fine house plant, somewhat like *P. Forbesi*, but larger in all its parts; flowers delicate lilac. 15c pkt.

Obconica Gigantea. Strong vigorous growth with immense heads of large individual blooms. 2 pkts., 25c; 15c pkt.

Obconica Grandiflora. Large flowers with finely fringed and toothed petals; a beautiful pot plant. 10c pkt.

HARDY PRIMROSES. These are among the best of the early spring-blooming plants. *Half-hardy Perennials.*

Auricula. Finest mixed. Extra choice; saved from a prize collection. 10c pkt.

Veris. (*Polyanthus*). Splendid colors; extra fine. 10c pkt.

Vulgaris. True English Primrose; canary-yellow, fragrant flowers. 10c pkt.

PYRETHRUM. Single Hybrids. Large flowers and choicest colors; saved from named varieties. *Hardy Perennial.* Finest Mixed. 10c pkt.

SCABIOSA. *Caucasica.* (Blue Bonnet). Especially valuable for cutting, the blooms lasting a long time in water; lilac-blue; 3 feet. *Hardy Perennial.* 10c pkt.

Japonica. A *Hardy Perennial* variety from Japan, forming bushy plants 2½ feet in height, and bearing on long wiry stems, beautiful, lavender-blue flowers; 2 fine cut flower. 10c pkt.

SHASTA DAISY. A grand, large-flowering Daisy of hardy, robust growth; white flowers. 3 pkts., 25c; 10c pkt.

STOCK. (*Gilliflower*). **McCullough's Cinnamati Market.** A grand variety producing one long sturdy spike closely set with enormous double white flowers; a fine forcer. 3 pkts., 25c; 10c pkt.

Princess Alice. (Cut and Come Again). Pure white clusters of fragrant blossoms; excellent for cutting. 3 pkts., 25c; 10c pkt.

STOKESIA. (*Cornflower or Stokes' Aster*) *Cyanea.* A hardy perennial, producing handsome lavender-blue, cornflower-like blossoms; in full bloom from July till frost; one of the best hardy border plants. 10c pkt.

VINCA. (*Madagascar Periwinkle, or Old Maid*). Ornamental, free-blooming plants. *Tender Annuals.*

Rosea. Rose, dark eye. 10c pkt.

Alba Rosea. White, crimson eye. 10c pkt.

Alba Pura. Pure white. 10c pkt.

Mixed. ¼ oz., 25c; 5c pkt.



TERBENA. *Half-hardy Annuals.*

Mammoth Defiance. Brilliant scarlet, fine for bedding. 10c pkt.

Mammoth Candidissima. Large trusses of pure white flowers. 10c pkt.

Mammoth Blue. Bright blue in various shades. 10c pkt.

Mammoth Pink. Bright shades of pink. 10c pkt.

Mammoth. Finest Mixed. A fine strain of beautiful colors and shades. 3 pkts., 25c; 10c pkt.

Gigantea Lucifer. Flowers intense brilliant scarlet with no eye. 10c pkt.

Gigantea Finest Mixed. Choice mixture of colors. 10c pkt.

SWEET WILLIAM. (*Dianthus Barbatus*). *Hardy*

Perennials.

Pink Beauty. Salmon-pink flowers. 5c pkt.

Holborn Glory. The flowers are of extraordinary size and color, all showing a clear, white eye. 5c pkt.

McCullough's Selected Single Mixed. A very choice assortment of all the best single-flowering varieties. 1½ oz., 20c; 5c pkt.

Double Red. Very effective, rich deep red variety. 5c pkt.

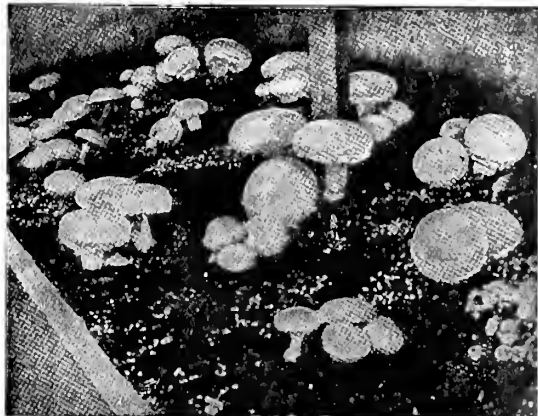
Double White. Excellent for cut flowers. 5c pkt.

Double Mixed. This mixture you will find of very superior quality, containing all colors and shades. 5c pkt.

Mushroom Spawn

One pound of Spawn is sufficient for a bed 2 x 6 feet.

We supply many of the largest commercial growers in the United States, and have on hand at all times in the season fresh Spawn of the best manufacture.



English Milltrack Mushroom Spawn. Our celebrated English Milltrack brand (made by the best maker in England especially for our trade) has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied upon to produce a good crop of the best Mushrooms. Commercially, it is more planted than any other Spawn. It comes in pressed bricks weighing about 20 ounces. They are broken into pieces the size of a walnut and put sideways in the beds 10 to 12 inches apart each way.

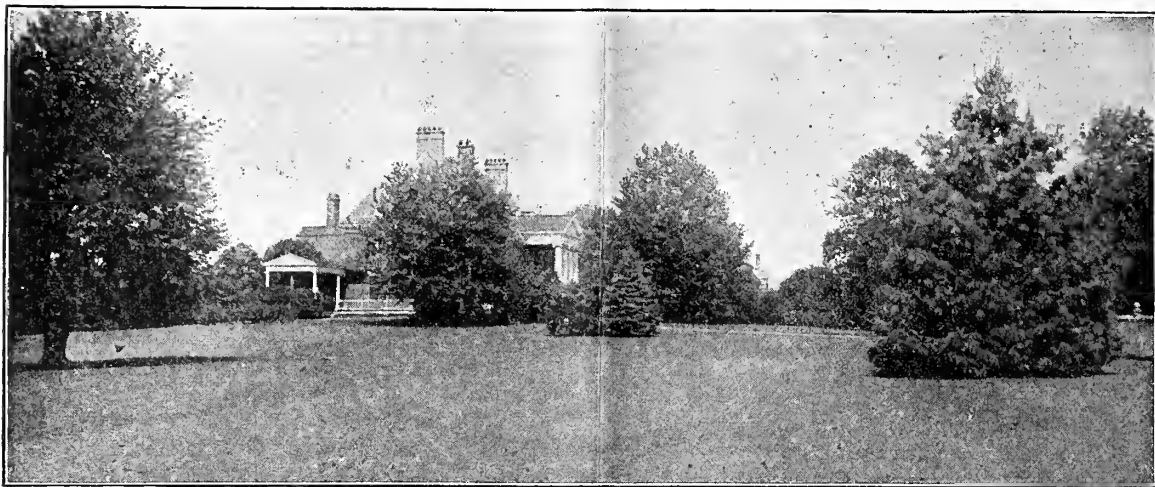
Prices, by express—customer to pay charges—per brick, 25c; per lb., 20c; 10 lbs., \$1.75; 100 lbs., \$12.00. By mail, 30c per brick, postpaid.

American Made Pure Culture Mushroom Spawn. A very superior article, made in this country from carefully selected spawn, which it is claimed is much more vigorous than the imported article, and will produce Mushrooms of a very superior quality and flavor. The popularity of Pure Culture Spawn is increasing rapidly and many of the large growers are now using it. They claim it is a surer crop. Amateurs have much the best results with this kind. By express—customer to pay charges—per brick, 30c; 5 bricks, \$1.25; 100 bricks, \$20.00. By mail, 35c per brick; 5 bricks, \$1.50, postpaid.

Treatise on Mushroom Culture, 10c, or given with an order of 10 lbs. of Mushroom Spawn.

Mushroom Culture. (Wm. Falconer.) The most practical work on the subject: \$1.00.

Special Prices will be given to those who use Mushroom Spawn in quantity.



McCULLOUGH'S "SUBURBAN" LAWN GRASS SEED

(Trademark Registered)

McCullough's "Suburban"
Lawn Grass Seed

IS a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year so that a rich, deep green, velvety lawn is constantly maintained. Our mixture is the result of several years experimenting, and, as we now offer it, is unequalled. The quantity required for making a new lawn is four bushels (64 lbs.) per acre, or for renovating old lawns, two bushels (32 lbs.) per acre. For a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

How to Make a Lawn.—The matchless beauty of a well kept lawn instantly commands the attention of all lovers of the beautiful in Nature, because a fine lawn is an unfailing mark of intelligence and taste, to obtain which, the main point is to start right. Seed will make a better lawn than turf or sod. The best soil is a good medium texture. The surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken, ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "Suburban" Lawn Grass Seed at the rate of four bushels (64 lbs.) per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible; then give a thorough rolling or pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains sufficient height, it should be mown with a lawn mower every week or ten days, according to the season. In dry weather keep the lawn well watered.

General Surface Renovating.—When your lawn has been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of our pulverized SHEEP MANURE, or our PURE BONE MEAL at the rate of at least 500 pounds per acre, and rake in, after which sow our "Suburban" Lawn Grass Seed at the rate of two bushels (32 lbs.) to the acre; roll thoroughly or pat with the back of a spade.

Prices:— $\frac{1}{2}$ lb., 30c; 1 lb., 50c; 5 lbs., \$2.25; $\frac{1}{2}$ bu., (8) lbs., \$3.25; per bu. of 16 lbs., \$6.00.

Postage Must Be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

"SHADY PLACE" Lawn Grass Seed

ON nearly all lawns there are more or less shady places, which result in having bare and unsightly spots on which the owners have difficulty in securing a satisfactory stand of grass. After many years of experimenting with different grasses, both native and foreign, we several years ago developed our present "Shady Place" Lawn Grass Seed Mixture. This mixture of grasses is adapted for such places, as it is composed of dwarf-growing grasses which are found naturally growing in shady locations. Sow the seed at the rate of four bushels (64 lbs.) per acre, or 1 lb. to each 300 square feet, after which roll thoroughly.

Prices:— $\frac{1}{2}$ lb., 35c; 1 lb., 60c; 5 lbs., \$2.50; $\frac{1}{2}$ bu. (8 lbs.), \$3.50; 1 bu. (16 lbs.), \$6.50.

"EDEN PARK" Lawn Grass Seed

THE quality of this lawn grass seed will compare favorably with a majority of the lawn grass mixtures on the market, as it contains practically the same grasses as our "Suburban", but without recleaning.

Prices:— $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.75; $\frac{1}{2}$ bu. (8 lbs.), \$2.65; 1 bu. (16 lbs.), \$5.00.

TERRACE MIXTURE

There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains.

Prices:— $\frac{1}{2}$ lb., 30c; 1 lb., 50c; 5 lbs., \$2.25; $\frac{1}{2}$ bu. (8 lbs.), \$3.25; 1 bu. (16 lbs.), \$6.00.

PUTTING GREEN MIXTURE

HAVING specialized for over three-quarters of a century in all varieties of Grass Seeds, and having become familiar with the habits and characteristics of all cultivated grasses, we were prepared to develop the Mixture of Grasses herewith offered by us, after making a careful study of the requirements for producing the most substantial turf for Putting Greens.

The numerous testimonials we have received establishes the fact that our Mixture of Grasses will produce a thick, tough, beautiful green turf.

The varieties comprising this Mixture of Grasses are all the finest-bladed, low-growing and most hardy kinds, and will maintain their rich, velvety green color throughout the season.

$\frac{1}{2}$ lb., 35c; 1 lb., 60c; 5 lbs., \$2.50; $\frac{1}{2}$ bu. (8 lbs.), \$3.50; 1 bu. (16 lbs.), \$6.50.

GOLF LINKS MIXTURE

WE have given much attention to grasses for golf links. The mixture of grasses we offer below is composed of such varieties as will thrive here, and are the result of experiments conducted on our grounds, as well as careful observation for several years of the practical results obtained on those golf links, for which we have supplied the seed. We shall be glad to prescribe for whatever the requirements of the links may be; for poor lands or rich; high and dry, or low and wet.

Per lb., 40c; 5 lbs., \$1.75; $\frac{1}{2}$ bu. (8 lbs.), \$2.65; 1 bu. (16 lbs.), \$5.00.

Pulverized Sheep Manure and Pure Bone Meal are the Best Fertilizers for Lawns. See Fertilizers.

McCullough's Grass Seeds

We specialize in Grass Seeds of all kinds and for every purpose.

FOR many years Grass Seeds have been one of our most important specialties, and our improved and perfected facilities for handling same (at a minimum cost), either in small or car lots, enables us to offer our customers the best possible service, both as to quality and promptness in executing orders.

We have four or five different grades of Grass Seeds, especially of the kinds most in demand, such as Clovers, Timothy, Blue Grass, Red Top, Orchard Grass, etc.

We will be pleased to quote lowest market prices on application.

For best results, we advise the use of our highest grades "XXXX" and "Buckeye."

We are the largest buyers in this section of high-grade Seeds and will always pay the highest market price. Submit samples and name quantity to offer.

Our prices include delivery to freight or express depots here, purchaser paying transportation charges.

We make no charge for burlap bags for Blue Grass, Red Top in Chaff, Orchard Grass, Perennial Rye and other light Grass Seeds.

Seamless bags for Clovers, Timothy, Fancy Red Top and other heavy Seeds and Seed Grain are 30c each, extra.

The number of pounds to the bushel, in brackets, is the old way of offering grasses, and is mentioned merely for reference.



Kentucky Blue Grass

We expect to adhere closely to prices quoted in this list, but owing to market fluctuations, it is impossible to guarantee prices.

All orders will be filled at lowest market price on the day of receipt.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

KENTUCKY BLUE GRASS

(*Poa Pratensis*)

ALSO known as June Grass, Green Grass, etc. This is rated as the finest permanent pasture grass. Especially suited to meadows and rich lands. It is the grass of the famous and fertile limestone soils of Kentucky, and is no less a favorite all through the Northern States. A perfect lawn grass. Sow 30 to 40 lbs. per acre for lawn; 2 bushels (28 lbs.) to the acre for pasture (14 lbs. per bushel).

Kentucky Blue Grass Seed, Fancy Cleaned.
Per lb., 55c; 3 lbs., \$1.50; ½ bu. (7 lbs.), \$3.40; 1 bu. (14 lbs.), \$6.50.

Write for special prices on large quantities and other grades.

NOTE:—We wish to call attention to the fact that Cincinnati is the leading market in the world for Kentucky Blue Grass Seed. We export many carloads annually, the words "McCullough's" and "Kentucky Blue Grass" being very familiar to the principal Seed dealers of the world.

ORCHARD GRASS

(*Dactylis Glomerata*)

ROUGH Cockfoot. Perennial. Height, 3 feet. It blossoms about the same time as Red Clover, making it, on that account, a desirable mixture with that plant. It is exceedingly palatable to stock of all kinds, and its powers of enduring the cropping of cattle commend it as one of the very best pasture grasses. Sow 25 to 35 lbs. to the acre. (14 lbs. per bushel). Market price.

RED TOP GRASS

(*Agrostis Palustris* or *Alba*)

HERD'S Grass, Quick Grass. Perennial. Height 1 to 2 feet. Valuable either for lawn mixtures, mixing in hay, or permanent pasture grasses; succeeds almost everywhere, but reaches its highest state of perfection in a moist, rich soil, in which it attains a height of 2 to 2½ feet.

Fancy Red Top Pure Seed.
Weight, about 30 lbs. per bushel. Sow 10 to 12 lbs. per acre. . . . Per lb., 30c; 10 lbs., \$2.50; per 100 lbs., \$22.00.

Choice Red Top Seed in Chaff.
Sow, if alone, 40 to 50 lbs. per acre. (14 lbs. per bushel).
Per lb., 20c; 7 lbs., \$1.35; per bu. of 14 lbs., \$2.50.

Perennial or English Grass

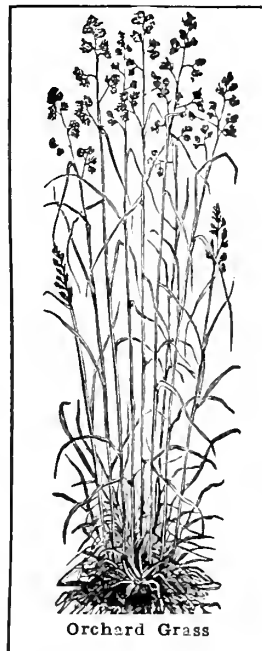
(*Lolium Perenne*)

IMPORTED English Blue Grass. Height, 15 to 24 inches. Considered invaluable for permanent pastures. It produces an abundance of remarkably fine foliage, tillers out close to the ground and soon forms a compact sward. After being cut it grows up in a very short time and remains bright and green throughout the season, consequently is well adapted for lawn mixtures. Valuable for shady places. Also a good variety for hay, if cut when in blossom, as it is then most nutritious. Sow, if alone, 50 to 60 lbs. per acre. (24 lbs. per bushel).

Per lb., 25c; 12 lbs., \$1.60; per bushel of 24 lbs., \$2.75.

Impossible to quote firm prices on "Fancy Grass Seeds" at time of going to press.

Write for special prices on New Crop Seeds.



Orchard Grass

Pacey's Improved Short Rye Grass

SIMILAR to Perennial Rye Grass, but does not grow so tall, consequently is superior for lawn purposes. (24 lbs. per bushel). Sow, if alone, 50 to 60 lbs. per acre.

Per lb., 25c; 12 lbs., \$1.75; per bu. of 24 lbs., \$3.00.

Meadow Fescue (*Festuca Pratensis*)

(Erroneously called English Blue Grass).

HIGHLY valuable for permanent grass land. Does not, however, attain its full productive power till the second or third year. Relished by live stock, both in hay and permanent pasture and is one of the most desirable grasses for general culture. Sow 30 to 40 lbs. to the acre. (24 lbs. per bushel.) This is the true Evergreen Grass of the South. Price on Application.

Awnless Brome Grass (*Bromus Inermis*)

A HARDY perennial, standing extremes of heat, cold and drought. In the south it remains green all winter. It will grow well on all kinds of soil. The seed should be sown as early in the spring as the ground can be worked. (10 lbs. per bushel). Sow 25 to 30 lbs. to the acre. Market Price.

Bermuda Grass (*Cynodon Dactylon*)

A VALUABLE grass for the south and for tropical climates; will not endure frost. Sow 10 to 15 lbs. per acre. Write for price.

Canadian Blue Grass (*Poa Compressa*)

ALSO called Flat-stemmed Poa, Flat-Stalked Meadow Grass. Grows a foot or more high. Recommended for horses, cows and sheep. Thrives well on clay. Sow 30 to 40 lbs. per acre. Market Price.

Creeping Bent (*Agrostis Canina*)

VALUABLE in mixture with other grasses for lawns, etc. Suitable also for moist localities. (12 lbs. per bushel.) Sow 30 to 40 lbs. per acre. Market Price.

Crested Dogtail (*Cynosurus Crystatus*)

A excellent grass for hard, dry soils; valuable for pastures and lawns, as it is very hardy, tender, nutritious and relished by all stock. (21 lbs. per bushel). Sow, if alone, 30 to 35 lbs. per acre. Perennial. Height, 1 to 1½ feet. Per lb., 75c; 10 lbs., \$7.00.

Fine-Leaved Sheep Fescue

(*Festuca Ovina Tenifolia*)

SIMILAR to the Sheep Fescue, except that the leaves are much finer. Sow, if alone, 40 lbs. per acre. (14 lbs. per bushel). Perennial. Height varies from 8 to 24 inches. Write for prices.

GRASS SEEDS—Continued

Hard Fescue (*Festuca Duriuscula*)

PERENNIAL. Height, 12 to 24 inches. Thrives well in dry situations. The herbage is decidedly tender, but the flower heads, when ripe, become hard. Sow, if alone, 30 to 35 lbs. per acre. (12 lbs. per bu.) Market Price.

Italian Rye Grass (*Lolium Italicum*)

BIENNIAL. Height, 18 to 30 inches. As it is not perennial, it is not adapted for permanent pastures, but for one or two years hay it is unsurpassed. Sow, if alone, 45 to 50 lbs. per acre. (18 lbs. per bushel.) Per lb., 25c; 10 lbs., \$2.00; 100 lbs., \$15.00.

Red Fescue (*Festuca Rubra*)

A CREEPING-ROOTED species, forming a close and lasting turf and especially adapted for dry, sandy soils. It resists extreme drought and thrives on poor soils; also valuable for shady places in lawns as well as for golf-courses. 40 lbs. to the acre. (24 lbs. per bushel). Market Price.

Rhode Island Bent (*Agrostis Tenuis*)

A fine grass, chiefly used for pastures and lawns, for which it is one of the best. (12 lbs. per bushel). Sow 25 to 40 lbs. per acre. Write for prices.

Sweet Vernal Grass

For a mixture with pasture grasses it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the autumn. Its chief merit is its fragrant odor, which the leaves emit when partially dry, thus sweetening hay. Sow 3 to 5 lbs. per acre with other grasses.

True Perennial. (*Anthoxanthum Odoratum*). Market Price. **Annual.** (*Anthoxanthum Odoratum Puelli*). Much smaller than the perennial. Prices on application.

Sheep Fescue (*Festuca Ovina*)

Perennial. Height varies from 6 to 20 inches. Grows naturally on light, dry, sandy soils. Sheep are very fond of it. (14 lbs. per bushel). Sow 30 to 35 lbs. per acre. Market Price.

Tall Meadow Oat Grass (*Avena Elatior*)

A perennial. Has broad, flat leaves, and grows about 3 feet high; has an abundance of long, fibrous roots, penetrating deeply in the soil, enabling it to withstand drought and cold. Sow 25 to 30 lbs. per acre. Market Price.

Timothy (*Phleum Pratense*)

Herd's Grass. **Cat's-tail Grass.** This grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel, as to circumstances. Market Price.

Various Leaved Fescue

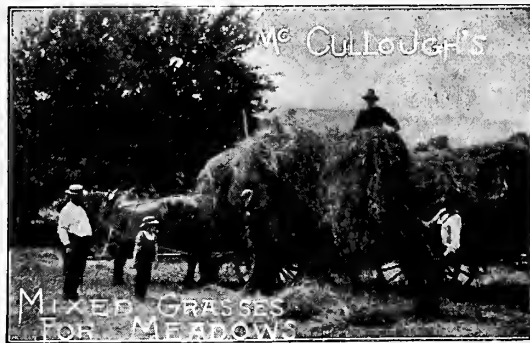
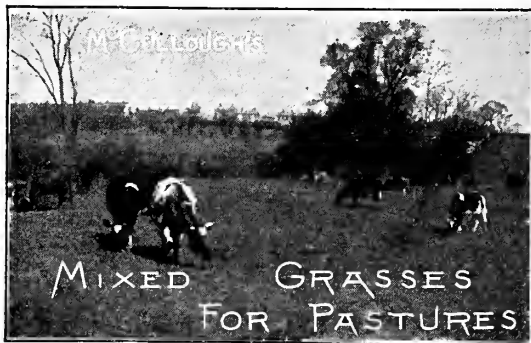
(*Festuca Heterophylla*)

A very early hardy perennial, 2 to 3 feet high, thriving best in cold, moist soils. Yields heavily and is valuable in grass mixtures for permanent meadows. It grows very well in the shade and is highly recommended for shaded lawns and woodland parks. 40 lbs. to the acre.

Wood Meadow Grass (*Poa Nemoralis*)

No grass is better adapted for pleasure grounds, particularly under trees as it will not only grow in such places, but forms a fine sward where few other grasses can exist. Sow 20 to 25 lbs. to the acre. Market Price.

We specialize in Grass Seed of all kinds and for every purpose. For larger quantities—write for Special Prices.



MCCULLOUGH'S MIXED GRASSES For Meadows and Pastures

AFTER years of experimenting we have aided largely in establishing the fact that a thicker and more prolonged growth is produced by a mixture of several varieties than when only one or two are used. There are always certain grasses that are especially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our **Mixture for Permanent Pastures**, grasses will be found that mature at intervals during the season, thereby insuring continuous pasturage, while our **Mixture for Permanent Meadow** will furnish excellent hay as well as late pasturage.

We are prepared to furnish seeds adapted to all soils and all situations and for all purposes, composed of grasses for light, medium or heavy soils; by light soil we mean that which is more or less of a sandy or gravelly nature; the heavy, clay and heavy loams; while the medium is an intermediate between these two. A light, wet soil, with respect to the grasses suited to it, may be considered same as to the heavy soils, and a dry, heavy soil, more as to light soils.

Our best mixture is made entirely with our choice re-cleaned seeds, while in our second quality we use the same seeds, but without re-cleaning, and will be equal to the qualities usually to be had on the market. Our mixtures will all have a uniform weight of 16 pounds to the bushel. Quantity to be used per acre, one and one-half to two bushels, and half this quantity for renovating. In ordering, always state the soil and position on which you wish to use it.

First Quality Mixtures

For Meadows

Per lb., 35c; 8 lbs., \$2.65; bu. of 16 lbs., \$5.00.

For Permanent Pasture

Per lb., 35c; 8 lbs., \$2.65; bu. of 16 lbs., \$5.00.

For Pasture and Hay in Orchard and Other Shady Places

Per lb., 35c; 8 lbs., \$2.65; bu. of 16 lbs., \$5.00.

For Marshy Grounds

Per lb., 35c; 8 lbs., \$2.65; bu. of 16 lbs., \$5.00

For Sandy and Rocky Grounds

Per lb., 35c; 8 lbs., \$2.65; bu. of 16 lbs., \$5.00.

Postage must be added if wanted by mail. See Postal Rates, second page of cover.

We supply SECOND QUALITY MIXTURES of any of the above at a reduction of 25c per bushel.

We specialize in Grass Seed of all kinds and for every purpose.

For larger quantities—write for special prices.

McCullough's High-Grade Clover Seed

Alfalfa, or Lucerne (*Medicago Sativa*)

ALFALFA is one of the most profitable crops the dairyman or stock farmer can raise, due to the high yield of palatable hay which contains a large percentage of protein. Alfalfa as grown in the United States, yields more than twice the digestible nutriment that Red Clover does and more than three times the digestible protein to the acre. Alfalfa and corn make a perfectly balanced ration. Many farmers are using it in their rotation to take the place of Red Clover. This practice is satisfactory where the soil contains a large supply of lime and organic matter and the seed has been inoculated, or the land has been in Alfalfa previously.

Alfalfa is best adapted to steep limestone hillsides and gravelly river bottoms, where the water can get away from the roots. Will grow on acid soils providing the water is drained off and sufficient lime is added to correct the acidity.

Where land is being seeded to Alfalfa for the first time it will pay to inoculate the seed with Edwards' Legume Bacteria for Alfalfa.

Sow in spring or fall at the rate of 15 to 20 lbs. per acre. We offer **American grown seed** raised in the Northwest and West on non-irrigated land. It is free as possible from noxious weeds. (60 lbs. per bushel).

Per lb., 30c; 10 lbs., \$2.50.

Prices on cheaper grades given on application.

Montana Alfalfa

A hardy variety from the non-irrigated or dry lands of eastern Montana, where the climate is severe. Under ordinary conditions the seed will serve all purposes where hardness is required and we advise giving the "Montana" a trial wherever it has been difficult to grow other varieties. Sow in spring or fall at the rate of 15 to 20 lbs. per acre. We have secured a supply of strictly high quality seed. Prices on application.

Grimm Alfalfa

This variety of Alfalfa is being raised all over the United States. It seems to be much harder than common Alfalfa, which is due to the division of its root system, enabling it to withstand freezing and thawing weather, droughts and other hardships which the common alfalfa will not endure.

We have this season secured a supply of **Genuine Seed** of this variety, grown by specialists in northern Idaho, where the soil and climatic conditions are most favorable for its development, consequently there can be no comparison between the quality of the seed offered by us and that offered from other sources of supply. When comparing prices kindly bear this fact in mind. Sow in the spring or fall of year at the rate of 15 to 20 lbs. per acre. Prices on application.

Alsike or Swedish Clover

(*Trifolium Hybridum*)

This variety is perennial and on account of its fibrous root system does not winter-kill. Will grow well on poor soil and do better on moist land than any other variety of Clover, and is highly esteemed as pasturage for bees. Sow 6 to 8 lbs. per acre. Market Price.

White or Dutch Clover

(*Trifolium Repens*)

THIS variety thrives on nearly all soils; is a low close-growing Clover, and on account of its earliness and hardness should be used in mixtures for permanent pastures and lawns. Per lb., 70c; 10 lbs., \$6.50.

Miscellaneous Farm Seeds

SOWING RAPE

AFORAGE plant of high feeding value. A rich, loamy soil is preferable, but it does well on sandy or stiff clays, and is excellent for sowing after a crop of wheat has been taken off. The plant is a rank grower and should have heavy manuring. It is excellent for fattening sheep and swine, produces an abundant flow of milk in cows, and is the ideal pasture for weaning lambs. Its value as sheep pasture has been demonstrated in every State in the Union, and it is recommended by authorities everywhere as of superior value for hogs, furnishing the finest pasturage, or can be fed after cutting. It can be sown for fall crop in July, August and September, and still later further South.

In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it. When on the Rape they should at all times have access to salt. When sown broadcast, use five to six pounds, and if in drills, two to three pounds, to the acre. Per lb., 20c; 10 lbs., \$1.50.

Prices on cheaper grades given on application.

Japan Clover (*Lespedeza Striata*)

THIS Clover is especially adapted for the South, because it occupies the same position in pasture mixtures for the South that White Clover does in the North. Will thrive on poor land, and, as it grows thickly, soon furnishes abundant pasturage. This Clover is a half-hardy annual, without any objectionable root system. Sow 15 to 20 lbs. per acre. (25 lbs. per bushel.) Market Price.

Bokhara or Sweet Clover

White Flowered. (*Melilotus Alba*). A biennial plant and bears a close resemblance to Alfalfa, but is larger and coarser. It will make an excellent growth on any lime lands and stiffest clays, or any soils so hard and barren that they will sustain no other vegetation.

The roots are very long, penetrating the soil to a depth of three to four feet, are large, and being fleshy, decay more rapidly than alfalfa roots, hence their nitrogen becomes more quickly available for other crops. As they decay at the end of the second season, there is a good supply of humus.

White Flowered; Hulled Seed, Scarified. Market Price.

Yellowed Flowered. (*Melilotus Officialis*). Biennial. It resembles the White Sweet Clover, but blooms about three weeks earlier, produces finer stalks and does not grow as tall. It makes first-class hay and excellent pasture for cattle and sheep. It will grow on any kind of soil, and, being deep rooted, remains green in the driest season. It should be sown by bee keepers in localities where Alfalfa is not grown, as it is one of the best honey plants.

Yellow Flowered; Hulled Seed, Scarified.

Market Price.

Unhulled Seed of both varieties is very slow to germinate. Unhulled Seed (30 lbs. per bushel). Hulled Seed (60 lbs. per bushel).

NOTE:—We have installed scarifying machinery, and our Hulled Sweet Clover is all scarified, which increases the germination 40 to 50 per cent.

Red Clover—Medium

(*Trifolium Pratense*)

SOW 10 to 12 pounds to the acre, according to quality of seed used and condition of the soil. In ordering, always state quality desired, otherwise will send the best. Market Price.

Red Clover—Sapling or Mammoth

(*Trifolium Pratense Perenne*)

Also called **English Clover, Cow Grass, Perennial Red Clover.** Sow 10 to 12 lbs. per acre. Market Price.

Crimson or Scarlet Clover

(*Trifolium Incarnatum*)

Crimson, Scarlet or Carnation Clover

AFIELD of this Clover in full bloom is a grand sight. This Clover grows about two feet high, makes good hay and is excellent for feeding green, the yield being immense, and after cutting it at once commences to grow again and continues until freezing weather, but being an annual, dies after maturing its seed. Should be sown in August to October, also early spring. 12 to 15 lbs. per acre. Per lb., 20c; 10 lbs., \$1.50.

VETCHES OR TARES

Sand, Hairy, or Winter Vetch. (*Vicia Villosa*). Our stock of this is the true type, which will absolutely live throughout the winter, and buyers should beware when buying that they procure the right article, which is a small, round, black seed. This is far superior to Crimson Clover, as it never winter-kills. Sow from August 1st to October 1st, broadcast, 1 to 1½ bushels per acre, to which we suggest adding half a bushel of winter rye or wheat. In the spring it can be plowed in as green manure, or when in flower cut for hay. All stock relish it keenly. (60 lbs. per bushel)

Market Price.

Write for prices on **FALL BARLEY, WINTER TURF OATS, SEED WHEAT and SEED RYE.**

For larger quantities—write for special prices.

Hardy Herbaceous Perennial Plants

THE steadily increasing demand for hardy plants has induced us to give them more attention and to increase our stock considerably. For such of our customers who are not acquainted with the different varieties, we shall be pleased to make suitable selections of the most desirable species, that once planted, with very little care, will keep the garden gay with flowers from the time frost leaves the ground until late in autumn.

Cannot accept orders for Hardy Perennial Plants totaling less than one dollar.

ACHILLEA (Milfoil or Yarrow)

Boule De Neige. (Ball of Snow). An improved variety, bearing pure white flowers of perfect form all summer. Fine for cut flowers. Each, 25c; per dozen, \$2.25.

Eupatorium. (Fern Leaved Yarrow). Produces brilliant yellow heads of flowers all summer, with neat, finely-cut foliage. Each, 30c; per dozen, \$2.75.

AJUGA (Bugle)

Reptans Rubra. A fine plant for the rockery and for shady situations. Large spikes of purplish-blue flowers in May. Each, 25c; per dozen, \$2.25.

ANCHUSA ITALICA

Dropmore Variety. Remarkable for its free and continual flowering all summer and the beautiful gentian-blue of its flowers; grows about five feet high.

Each, 25c; per dozen, \$2.25.

ANTHEMIS TINCTORIA

The hardy Marguerites are among the most satisfactory summer-flowering perennials, growing about 15 inches high; large golden-yellow flowers. Each, 25c; per dozen, \$2.25.

AQUILEGIA (Columbine)

CHARMING hardy plants, with distinct clear-cut foliage, bearing in countless numbers, through May and June, exquisite clear blue, white, rose, yellow, purple and striped blossoms. They thrive well with ordinary garden culture, but do best in partially shaded nooks.

Chrysantha. (Golden Columbine). Golden-yellow flowers with long spurs. Each, 25c; per dozen, \$2.25.

Chrysantha Alba. A long-spurred white variety. Each, 25c; per dozen, \$2.25.

Coerulea. Flowers often three inches in diameter; the outer sepals deep lilac or blue, petals white, the deep blue spur tipped green. Each, 25c; per dozen, \$2.25.

Long Spurred Hybrids. Beautiful variations from the standard type. Each, 30c; per dozen, \$2.75.

Canadensis. (American Columbine). A bright red and yellow variety; very attractive. Each, 25c; per dozen, \$2.00.

ARABIS (Rock Cress)

Alpina. A desirable early spring flowering plant, adapted for edging and the rock garden, but does equally well in the border, forming a dense carpet, completely covered with pure white flowers, which last a long time in bloom. Each, 30c; per dozen, \$2.75.

ASTERS (Michaelmas Daisies or Starworts)

THESE are among the showiest of our late flowering hardy plants, giving a wealth of bloom at a season when most other hardy flowers are past, and for the best effect should be planted in masses of one color. The hardy sorts are entirely distinct from Annual Asters, being smaller in bloom, but produced in greater quantity.

Novi Belgii Climax. The plant is of strong vigorous habit, over 5 feet high, with pyramidal shaped flower stems filled with light lavender-blue flowers, each 1 1/4 inches or more in diameter; August to October. Each, 30c; per dozen, \$2.75.

Novae-Angliae. A tall growing species, bearing clear purple flowers; September. Each, 25c; per dozen, \$2.25.

Novae-Angliae Roseus. Similar to the preceding, bearing rose-colored flowers; September. Each, 25c; per dozen, \$2.25.

CAMPANULAS (Bell Flower)

BELL-SHAPED flowers, well known and easily grown, of much variety of form, some being tall and suitable for planting in borders or among shrubbery, while others are dwarf and suitable for edging, rockwork, etc.

Carpatica. (Carpathian Hare Bell). Ideal for border or rockery planting, being about eight inches high; flowers from June till frost; blue and white; each color separate. Each, 25c; per dozen, \$2.25.

Persicifolia. (Peach Bells). Blue flowers during June and July; 2 feet. Each, 30c; per dozen, \$2.75.

CERASTIUM (Snow in Summer)

Tomentosum. Suitable for the rockery or for covering dry, sunny spots. Low growing plant with silvery foliage and white flowers in June. Each, 25c; per dozen, \$2.25.



COREOPSIS

Lanceolata Grandiflora. A beautiful hardy border plant; grows eighteen inches high and produces its bright golden-yellow flowers in great profusion the entire season. Each, 25c; per dozen, \$2.25.

Rosea. Small pink flowers, blooming in August and September. Foliage dark green, finely divided. Useful in border and rockery; 1 foot. Each, 30c; per dozen, \$2.75.

DELPHINIUM (Perennial Larkspur)

THESE are deservedly popular. They are perfectly hardy and will establish themselves in almost any garden soil, but respond quickly to liberal treatment. Will begin blooming about the middle of June. If stalks are cut off as soon as flowers fade, they will continue blooming all summer.

Belladonna Hybrids. The freest and most continuous blooming of all. The clear turquoise-blue flowers are not surpassed by any; 3 feet. Each, 30c; per dozen, \$2.75.

Formosum. Dark blue, white center, spikes three to four feet tall; very attractive. Each, 30c; per dozen, \$2.75.

Giant Hybrids. Unquestionably the finest strain of mixed hybrids ever offered. The plants are of strong, vigorous habit, with large flowers on spikes two feet and over long. Each, 25c; per dozen, \$2.25.

Chinensis. A dwarf species, with fine feathery foliage and gentian-blue flowers. Each, 30c; per dozen, \$2.75.

Chinensis Alba. A pure white form of the above. Each, 30c; per dozen, \$2.75.

EUPATORIUM

Ageratoides. (Thorough Wort). Grows 3 to 3 1/2 feet high with small white flowers in dense heads; August and September. Each, 25c; per dozen, \$2.25.

Coelestinum. Light blue flowers; blooms from August until frost. Each, 25c; per dozen, \$2.25.

GAILLARDIA (Blanket Flower)

Grandiflora. Beginning to flower in June, they continue one mass of bloom the entire summer. Flowers three inches in diameter; center dark reddish-brown; petals orange to crimson. Each, 25c; per dozen, \$2.25.

GYPSOPHILA (Baby's Breath)

Paniculata. Loose, feathery sprays of white flowers, making a mist-like effect in August and September; fine for bouquets. Each 25c; per dozen, \$2.25.

Repens. An elegant trailing plant for the rockery, with clouds of small white flowers in July and August. Each, 30c; per dozen, \$2.75.

GRASSES, Ornamental. (See page 20). When ordering plants to be sent via Parcel Post, always add 5c per plant or 30c per dozen for postage.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

HARDY HERBACEOUS PLANTS—Continued

HIBISCUS (Mallow)

Mallow Marvels, Giant-flowering. Flowers of enormous size, frequently 10 to 12 inches in diameter. Plants grow from 5 to 8 feet high, and bloom from early in July until late in autumn. We offer three distinct colors—red, pink and white—strong roots. One each of the three colors for \$1.00.

Each, 35c; per dozen, \$3.25.

HOLLYHOCK

FOR planting in rows or in groups on the lawn, or for inter-spersing among shrubbery, they are invaluable. They require rich, deep soil, well drained.

Double White, Double Rose, Double Yellow, Double Red, Double Mixed. . . . Each, 25c; per dozen, \$2.25.

LIBERTY IRIS (Flag Iris)

The "Fleur-de-Lis" of France

THE Liberty Iris is one of the most desirable May flowering plants. The flowers are of large size and exquisite colors. For the best results plant in a well-drained sunny position, barely covering the roots. Avoid fresh manure in preparing your border.

Baron von Humboldt. Dark blue.

Canary Bird. Light yellow or buff.

Coerulea. Sky blue.

Florentina Alba. White.

Florentina Coerulea. Blue, very fine.

King of Yellows. Yellow.

L'Innocence. White, veined with orange-purple.

Mme. Chereau. Pure white, border of blue.

Mont Blanc. Pure white.

Purpurascens. Dark purplish-blue.

Queen Victoria. Blue, changing to bluish-white.

Thorbecke. White and deep violet.

Price of above Each, 25c; per dozen, \$2.25.

If by mail, add 5c each, 30c per dozen.

We can furnish large clumps of most of the above varieties from 50c to \$1.00 each.

JAPANESE IRIS (Iris Kaempferi)

Named Varieties

THEY are most effective when planted in groups, and thrive best in a moist soil. The flowers are of immense size, from six to eight inches in diameter, and of the most beautiful and delicate shades. They are perfectly hardy, flowering in great profusion during June and July.

Exquisite. Blue in light and dark shadings.

Norma. Deep purple.

Royal. Mahogany-red.

Purple and Gold. Fine combination of colors

Chadai. Clear white, creamy standards.

Furomon. White, purple shadings.

Idzumogawa. Gray, yellow blotches and blue veins.

Kurokomo. Purple overlaid with dark blue, yellow blotches.

Manadzuru. White, yellow blotches.

Uchui. Crimson-purple with few white veins.

Warai-botei. Lavender-blue, light blue halo.

Wakanoura. Delicate red-lilac.

Above named varieties, each, 60c; per dozen, \$6.00.

If wanted by mail, add 5c each, 30c per dozen for postage.

Finest Mixed (Our selection). Our mixed varieties embrace a wide range of colors and markings.

Each, 35c; per dozen, \$3.00.

If by mail, add 5c each, 30c per dozen.

IRIS PALLIDA DALMATICA

This variety is of strong, vigorous habit, growing in good soil 4 feet high, with exceptionally large, fragrant flowers, standards lavender, falls lavender, shaded blue; exquisite in every way and fine for massing.

Each, 30c; per dozen, \$2.75.

IRIS SIBERICA

Orientalis. (Yale Blue). A slender, graceful, tall-growing Iris, with flowers quite similar to those of the Liberty Iris, but smaller and much more numerous. The plants form large, strong, compact clumps and bloom so freely that the deep blue flowers give almost a solid color effect. Each, 25c; per dozen, \$2.25.

LIATRIS (Blazing Star, or Gay Feather)

Showy native plants, producing their large spikes of flowers from July to September.

Pycnostacha. Spikes of light, rosy-purple flowers; five feet. Each, 25c; per dozen, \$2.25.

Spicata. Deep purple flowers, in spikes two to three feet high. Each, 25c; per dozen, \$2.25.

LINUM (Flax)

Perenne. A fine plant for the border or rockery; grows 2 feet high, with light, graceful foliage and large blue flowers all summer. Each, 30c; per dozen, \$2.75.

We do not guarantee or replace Plants, Shrubs or Trees, at prices quoted.

LUPINUS POLYPHYLLUS (Lupine)

They grow about three feet high, producing large spikes of flowers; latter part of May and early June.

Polypyllus. Clear blue. Each, 25c; per doz., \$2.25.

Albus. A white variety of above.

Each, 30c; per doz., \$2.75.

LYCHNIS

Chalcedonica. A desirable plant, growing two to three feet high; flowers brilliant orange-scarlet.

Each, 25c; per dozen, \$2.25.

MERTENSIA (Blue Bells)

Virginica. An early spring-flowering plant, growing about one to one and one-half feet high, with drooping panicles of handsome, light blue flowers, fading to clear pink; one of the most interesting spring flowers, blooming in May and June. Each, 25c; per dozen, \$2.25.

MYOSOTIS (Forget-Me-Not)

Palustris Semperflorens. A variety that is hardly ever out of flower. Useful in a shady spot in the border.

Each, 25c; per dozen, \$2.25.

HARDY PHLOX (Phlox Decussata)

PROBABLY the most satisfactory of all perennials, and a good space, in proportion to the size of the garden, should always be given to these plants. These are justly esteemed as the finest herbaceous plants. They are of dwarf habit, perfectly hardy, of very easy culture, and yield a profusion of bright showy bloom. They are hardly equaled by any other hardy plant for the decoration of the garden.

We offer the following collection of extra choice varieties. Each, 25c; per dozen, \$2.25.

Africa. Brilliant carmine-red with deeper eye.

Baron Von Dedem. Blood-red, scarlet, with salmon shadings; immense trusses.

Beranger. White ground, delicately shaded with pink and distinct red eye.

Bridesmaid. Pure white, with crimson-carmine eye.

Coquilecot. Bright orange-scarlet with crimson eye; extra large, compact flower heads.

Eclairer. Dark crimson, center rose surrounded with white; an excellent variety.

Elizabeth Campbell. Bright, light salmon-pink, with lighter shading and dark red eye.

Etna. Deep, fiery-red; dark eye.

Europa. A white variety with decided crimson-carmine eye; flowers and trusses are very large.

F. G. Von Lassburg. The finest white flowers; very large; strong, vigorous grower.

Frau Anton Buchner. The finest white yet introduced, having the largest truss and largest individual flower.

Independence. An early, pure white.

Mad. Bezanson. A tall growing variety with bright crimson flowers in large trusses.

Mme. Pape Carpentier. This is a dwarf variety, bearing enormous trusses of pure white flowers.

Mme. Paul Dutrie. Delicate lilac-rose; flowers very large, borne in immense panicles.

Pantheon. Bright carmine-rose; large and fine.

Richard Wallace. White, with bright crimson center; large flowers in immense panicles.

Rosenberg. Bright, reddish-violet flowers with blood-red eye; individual flowers very large.

R. P. Struthers. Bright rosy-carmine with claret-red eye.

Selma. Large trusses of very large pink flowers, with cherry-red eye; choice.

Sir E. Landseer. Large, bright crimson flowers, borne in immense trusses.

Thebaide. Salmon, with carmine eye; dwarf.

Thor. Deep salmon-pink with aniline-red eye, suffused and overlaid with a scarlet glow.

W. C. Egan. Flowers are of a delicate lilac, illuminated by a large, bright solferino eye, producing a pleasing shade of soft pink.

Any of the above varieties, each, 25c; per dozen, \$2.25.

If wanted by mail, add 5c each, 30c per dozen, for postage.

PHLOXES of Sorts

Amoena. This variety grows about 4 inches high, forming a carpet of foliage, which in early spring is a sheet of bright pink flowers. Each, 25c; per dozen, \$2.25.

Divaricata Canadensis. This variety commences to bloom early in April and continues through May, with large, fragrant lavender flowers, on stems 10 inches high. Each, 25c; per dozen, \$2.25.

Subulata. (Moss or Mountain Pink). An early spring-flowering type, with pretty moss-like evergreen foliage. An excellent plant for the rockery, the border, and for carpeting the ground or covering graves.

Rosea. Bright rose. Each, 25c; per dozen, \$2.25.

Suffruticosa. Miss Lingard. This early flowering variety grows about 2 feet high and blooms from May to October. Flowers white with pale pink eye; long, graceful panicles. Each, 25c; per dozen, \$2.25.

HARDY HERBACEOUS PLANTS—Continued

PHYSOSTEGIA (False Dragon-Head)

Grows three to four feet high, bearing spikes of delicate tubular flowers in mid-summer.

Virginica. Bright, soft pink. Each, 25c; per dozen, \$2.25.

Virginica Alba. Pure white. Each, 25c; per dozen, \$2.25.

ORIENTAL POPPIES

(*Papaver Orientale*)

FOR a gorgeous display of rich and brilliant coloring, nothing equals them during their period of flowering in May and June. After flowering, the plants die back, usually re-appearing along in early September, or as soon as the weather gets cool. During this resting period, care should be taken in cultivating the beds, that the roots are not disturbed.

Mahogany. Dark maroon.

Mrs. Perry. Pink.

Princess Victoria Louise. Salmon.

Royal Scarlet. Bright red.

The above varieties.....Each, 30c; per dozen, \$2.75.

Mixed Varieties.....Each, 25c; per dozen, \$2.25.

HARDY GARDEN PINKS

THESE old-fashioned favorites are absolutely perfect as an edging for the hardy border; as cut flowers they are indispensable.

Mixed Hardy Garden Pinks. Seedlings grown from a very select strain, which should produce a good percentage of double flowers...Each, 25c; per dozen, \$2.25.

PYRETHRUM

Uliginosum. (Giant Daisy). Grows four to five feet high, and is covered with large, white, daisy-like flowers three inches in diameter from July to September.

Each, 25c; per dozen, \$2.50.

DOUBLE HERBACEOUS PEONIES

MAGNIFICENT, hardy plants, almost rivaling the rose in perfume, brilliancy, color and perfection of bloom. They are perfectly hardy, require little or no care, and produce larger or finer blooms when well established.

Edulis Superba. Bright, clear mauve-pink with silvery reflex, and June rose fragrance. Early and large flowering.....Each, 35c.

Felix Crouse. A late mid-season dwarf variety producing large, globular flowers of rich, even, brilliant red. Each, 75c.

Festiva Maxima. Queen of all the Peonies. A grand early variety with white flowers, tipped with carmine spots on edge of center petals.....Each, 75c.

Livingstone. Color pale, lilac-rose with silvery sheen. Buds and flowers large and beautiful.....Each, 55c.

Louis Van Houtte. Deep carmine-rose, tipped silver, with a brilliant, fiery reflex. Late mid-season. Each, 45c.

Queen Victoria. Large, full, compact bloom, opening flesh, changing to white, center petals tipped with carmine. Late mid-season.....Each, 45c.

PEONIES IN MIXTURE

THEY are from our named varieties. We offer them as follows: White, red and pink in mixture.

Each, 25c; per dozen, \$2.50.

RUDBECKIA (Cone Flower)

Purpurea. (Giant Purple Cone Flower). The flowers remain in perfect condition on the plants for weeks at a time. Flowers from July to September; two and one-half feet high.....Each, 25c; per dozen, \$2.25.

SEDUM (Stone Crop)

Acre. (Golden Moss). Much used for covering graves; foliage green, flowers bright yellow.

Each, 25c; per dozen, \$2.25.

Album. Green foliage, white flowers. Each, 25c; per dozen, \$2.25.

Sexangulare. Dark green foliage, yellow flowers. Each, 25c; per dozen, \$2.25.

Spectabilis. Erect growing; height 18 inches with broad light-green foliage and immense heads of handsome

showy, rose-colored flowers. Each, 25c; per dozen, \$2.25.

Spectabilis Brilliant. Similar to the above with bright

amaranth-red flowers....Each, 25c; per dozen, \$2.25.

Spurium. Grows 6 inches high with attractive pink

flowers.....Each, 25c; per dozen, \$2.25.

SCABIOSA

Caucasia. (Blue Bonnet). Blooms from June to September. Flowers a soft shade of lavender borne on stems 18 to 24 inches high....Each, 30c; per dozen, \$2.75.

Japonica. Bears lavender-blue flowers on long stems from July to September...Each, 30c; per dozen, \$2.75.

SHASTA DAISY

LARGE, snowy-white flowers, in bloom continuously throughout the summer and fall.

Alaska. Very free-flowering, with blooms 4½ to 5 inches across, of pure, glistening white.

Each, 25c; per dozen, \$2.25.

King Edward. Very large flowers; plant of vigorous growth.....Each, 25c; per dozen, \$2.25.

STATICE (Great Sea Lavender)

Latifolia. Immense heads, 2 to 3 feet across; small, blue flowers from June to September, which last for months if cut and dried.....Each, 20c; per dozen, \$2.00.

STOKESIA (Cornflower or Stokes' Aster)

Cyanea. Produces showy, aster-like, deep blue flowers which measure from 4 to 5 inches across, 18 to 24 inches high, blooming freely from July until frost.

Each, 30c; per dozen, \$2.75.

Alba. White flowers.....Each, 30c; per dozen, \$2.75.

SWEET WILLIAM (*Dianthus Barbatus*)

Well known hardy plant. We offer a superb strain of mixed single and double-flowering sorts.

Each, 25c; per dozen, \$2.25.

Newport Pink. Salmon or watermelon-pink flowers. Each, 30c; per dozen, \$2.75.

VINCA MINOR (Periwinkle or Trailing Myrtle)

Dwarf evergreen trailing plant; is used for carpeting the ground where it is too shady for other plants to thrive.

Each, 25c; per dozen, \$2.25.

VERONICA (Speedwell)

Incana. Bright silvery foliage, with spikes of amethyst-blue flowers 1 foot high during July and August.

Each, 25c; per dozen, \$2.25.

Longifolia Subsessilis. A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall...Each, 35c; per dozen, \$3.25.

Spicata. An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers.

Each, 25c; per dozen, \$2.25.

ORNAMENTAL GRASSES

Eulalia Gracillima. (Japan Rush.) The most beautiful of all the *Eulalias*, with narrow, graceful foliage, entirely green without variegation, except that the mid-rib is of a silver sheen.

Eulalia Japonica Variegata. Leaves striped white and green longitudinally.

Eulalia Zebrina. (Zebra Grass). A peculiar variegated grass, growing six feet high. The variegation is unlike that of any other plant, being across the leaf in regular bands, dark green and light.

Above, each, 30c; per doz., \$2.75; by mail, 35c each.

Hedge Plants

CALIFORNIA PRIVET. (*Ligustrum Ovalifolium*). Its foliage is a rich dark green and is nearly evergreen, remaining on the plant until mid-winter. It is of free growth and succeeds under the most adverse conditions, such as under dense shade of trees. The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.

12 to 15 inches, per doz., \$0.75; per 100, \$ 5.00.

15 to 18 inches, per doz., 1.00; per 100, 7.00.

18 to 24 inches, per doz., 1.20; per 100, 9.00.

24 to 30 inches, per doz., 1.50; per 100, 11.00.

AMOR RIVER PRIVET, North. (*Ligustrum Amurense*).

12 to 18 inches, per doz., \$2.00; per 100, \$16.00.

18 to 24 inches, per doz., 2.50; per 100, 20.00.

24 to 30 inches, per doz., 3.00; per 100, 24.00.

IBOTA PRIVET. (Japanese Privet).

18 to 24 inches, per doz., \$2.00; per 100, \$20.00.

24 to 36 inches, per doz., 3.00; per 100, 24.00.

REGEL'S PRIVET. (*Ligustrum Regelianum*).

18 to 24 inches, per doz., \$5.00; per 100, \$40.00.

24 to 30 inches, per doz., 6.25; per 100, 50.00.

Ornamental Flowering Shrubs

SHRUBS are as much a part of the garden as the lawn or flower borders, and a well arranged planting presents an attractive appearance throughout the entire year.

Thorough preparation of the soil by spading, and the addition of a liberal quantity of sheep or stable manure or bone meal will be well repaid by strong, vigorous, healthy growth. In planting, care should be taken not to overcrowd, allowing sufficient room for future development, and unless an immediate effect is wanted—in which case they may be planted closer and some of them moved when necessary. The majority of the dwarf-growing kinds may be set about three feet apart, the tall, strong growers about five feet apart.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

Stocks of **ORNAMENTAL FLOWERING SHRUBS** have become greatly depleted in the last few years, consequently it is no longer possible to offer two or more sizes, except in a few instances. Our prices contemplate furnishing the largest sizes now obtainable.

We do not guarantee or replace plants, shrubs or trees, at prices quoted.

ALTHEA. (Rose of Sharon). The Altheas are among the most valuable of our hardy shrubs on account of their late season of blooming, which is from August to October. Are also extensively used as hedge plants.

Boule-De-Feu. Double red. Each, 75c; per doz., \$7.50.

Jeanne D'Arc. Double white. Each, 75c; doz., \$7.50.

Meehani. Variegated foliage with satiny, lavender-colored, single flowers. Each, 60c; per dozen, \$6.00.

Double Rose, White and Purple. Three to four feet, each, 60c; per dozen, \$6.00.

BERBERIS THUNBERGII. (Japanese Barberry). One of the most beautiful shrubs either for hedging or general purposes. It is of neat, compact growth and the foliage is beautiful at all times, turning in the fall to a most brilliant crimson color. The plant is covered with bright scarlet berries all the fall and winter. It seldom grows over four feet high.

15 to 18 inches, each, 45c; per dozen, \$4.50.

18 to 24 inches, each, 60c; per dozen, \$6.00.

24 to 30 inches, each, 75c; per dozen, \$7.50.

BUDDLEYA. (Butterfly Shrub or Summer Lilac). *Varieabilis Magnifica.* Flowers are the shape and color of lilacs. Flowers continuously all season.

Each, 60c; per dozen, \$6.00.

CALICARPA. *Purpurea.* A low growing shrub rarely exceeding three feet in height. In September clusters of bright, glossy, violet-purple berries are borne in from the axil of every leaf, remaining on the plant until mid-winter. Each, 75c; per dozen, \$7.50.

CERCIS CANADENSIS. (Judas Tree or Red Bud). Each, \$1.50; per dozen, \$15.00.

CORCHORUS. (*Kerria*). Globe Flower or Japanese Rose.

Japanica. Flowers bright yellow, large and showy. Each, 75c; per dozen, \$7.50.

Argentea Variegata. A dwarf variety with small green foliage, edged with white. Each, 90c; per dozen, \$9.00.

CORNUS FLORIDA. (White Flowering Dogwood). Flowers white and very showy.

Each, \$1.50; per dozen, \$15.00.

CORNUS FLORIDA RUBRA. (Red Flowering Dogwood). The flowers are rich rosy-red.

Each, \$3.00; per dozen, \$30.00.

CORNUS MASCULA. (Cornelian Cherry). Bright yellow flowers. Each, 75c; per dozen, \$7.50.

CRAB. (Bechtel's Double Flowering). Trees are covered in early spring with large, beautiful, double, fragrant flowers of a delicate pink.

Each, \$2.00; per dozen, \$20.00.

DESMODIUM PENDULIFLORUM. Bears during September, sprays of rose-colored flowers.

Each, 75c; per dozen, \$7.50.

DEUTZIA CRENATA FL. PL. Flowers double white, tinged with pink. Each, 60c; per dozen, \$6.00.

DEUTZIA GRACILIS. A dwarf bush, with spikes of pure white flowers. Each, 90c; per dozen, \$9.00.

DEUTZIA LEMOINEI. Habit dwarf, flowers white. Each, 75c; per dozen, \$7.50.

DEUTZIA PRIDE OF ROCHESTER. Large double white flowers, slightly tinted with rose.

Each, 75c; per dozen, \$7.50.

ELDER GOLDEN (*Sambucus*). Golden-yellow foliage. Each, 75c; per dozen, \$7.50.

ELEAGNUS LONGIPES. Orange-scarlet berries. Each, 75c; per dozen, \$7.50.

FORSYTHIA FORTUNEI. (Golden Bell). Upright growth and bright yellow flowers in April. Each, 75c; per dozen, \$7.50.

FORSYTHIA SUSPENS. (Weeping Golden Bell). Willowy growth and yellow flowers.

Each, 75c; per dozen, \$7.50.

FORSYTHIA VIRIDISSIMA. (Golden Bell). Erect growth and spreading branches; flowers bright yellow. Each, 75c; per dozen, \$7.50.

HYDRANGEA ARBORESCENS STERILIS. (Snowball-Hydrangea). Snowy white blooms, flowering for fully three months. Each, 75c; per dozen, \$7.50.

HYDRANGEA PANICULATA GRANDIFLORA. The flowers, which are borne in dense pyramidal panicles in the greatest profusion, are white when they first open, but gradually change to rose and remain in good condition for weeks.

18 to 24 inches, each, 75c; per dozen, \$7.50.

2 to 3 feet, each, \$1.00; per dozen, \$10.00.

HYDRANGEA PANICULATA GRANDIFLORA. Standard or Tree-Shaped Plants.

Four to five feet. Each, \$2.25; per dozen, \$22.50.

LILAC. *Purple.* (*Syringa Vulgaris*). Purple flowers. Each, 90c; per dozen, \$9.00.

White. (*Syringa Vulgaris Alba*). White flowers.

Each, 90c; per dozen, \$9.00.

Price of any of the following named Lilacs, fine plants. Each, \$1.25; per dozen, \$12.50.

Charles X. Reddish-purple flower.

Madame Lemoine. Double white flower.

Michael Buchner. Double pale lilac.

LONICERA TARTARICA. (Tartarian Honeysuckle). Flowers red and white. Each, 75c; per dozen, \$7.50.

PHILADELPHUS OR SYRINGA. *Grandiflorus.* (Large-flowered Mock-Orange). Flowers are pure white and very large. Each, 75c; per dozen, \$7.50.

RHODOTYPOS. *Kerrioides.* (White Kerria). Large single white flowers in the latter part of May, succeeded by black berries. Each, 90c; per dozen, \$9.00.

RHUS COTINUS. (Purple Fringe, or Smoke Tree). Each, 75c; per dozen, \$7.50.

RIBES AUREUM. (Golden Currant). Flowers yellow, fruit dark brown. Each, 75c; per dozen, \$7.50.

SPIREA. *Anthony Waterer.* Grows three feet high and wide. Rose-red flowers in large, round clusters.

12 to 15 inches, each, 75c; per dozen, \$7.50.

Callosa Alba. A dwarf, bushy, white flowering variety. 18 to 24 inches, each, 90c; per dozen, \$9.00.

Van Houttei. (Improved Bridal Wreath). Clusters of white florets are set close along the drooping stems.

Two to three feet, each, 60c; per dozen, \$6.00.

Three to four feet, each, 75c; per dozen, \$7.50.

Prunifolia Fl. Pl. (Old Bridal Wreath). Pure white, double flowers in May. Each, \$1.00; per doz., \$10.00.

SYMPHORICARPUS. *Vulgaris.* (Coral-Berry or Indian Currant). Each, 60c; per dozen, \$6.00.

SYMPHORICARPUS. *Racemosus.* (Snowberry). Each, 60c; per dozen, \$6.00.

VIBURNUM. *Opulus Sterilis.* (Snowball or Guilder Rose). Single white flowers; brilliant red berries all winter. Each, 75c; per dozen, \$7.50.

Plicatum. (Japan Snowball). Pure white flowers in May. Each, \$1.25; per dozen, \$12.50.

Tomentosum. (Single Japan Snowball). A handsome shrub with beautiful, dark green leaves. Flowers white, borne in flat clusters in May. In autumn, foliage turns to a rich crimson. Each, 90c; per dozen, \$9.00.

WEIGELIA. *Eva Rathke.* The finest Weigelia in cultivation. Flowers are a rich, ruby-carmine, blooming continuously throughout the summer and autumn.

Each, 90c; per dozen, \$9.00.

Rosea. A beautiful shrub, with rose-colored flowers in May and June. Each, 75c; per dozen, \$7.50.

Candida. White; flowering throughout the summer. Each, 75c; per dozen, \$7.50.

ORNAMENTAL TREES

CATALPA BUNGEI. (Umbrella Catalpa). Leaves large, glossy, heart-shaped, deep green, always making a symmetrical head. One of the most unique desirable trees for lawn, park and cemetery planting. 6 to 7 feet. Each, \$3.00; selected two-year-old, each, \$3.75.

MULBERRY, TEAS' WEeping. The most graceful hardy weeping tree in existence. Forms a perfect-shaped head and the slender branches grow downward parallel with the stem, forming an umbrella-like shape. 1 year heads, each, \$3.75; 2 year heads, each, \$4.50.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

Roses

Hardy Hybrid Perpetual

Hardy Hybrid Perpetual Roses should be planted in the fall, because dormant stock for spring delivery is unsatisfactory on account of being carried in storage cellars all winter. For this reason we have discontinued making spring deliveries on Hardy Perpetual and Hardy Climbing Roses.

Strong Two-Year-Old Plants Ready for Delivery During October and November.

Price—Extra Strong Plants, each, \$1.00; per doz., \$10.00.

Sent by express at customer's expense.

If wanted by mail, add 10c each, 75c per dozen, for postage.

Captain Christy. Delicate flesh-pink, very free.

Eugene Furst. Flowers velvety-crimson with maroon shading.

Frau Karl Druschki. An exquisite flower of the purest white.

General Jacqueminot. The old favorite; velvety-crimson.

John Hopper. Brilliant crimson, large flowers, remarkable for their fragrance.

Mme. Plantier. Pure white, large and double, free bloomer; fine for cemetery planting.

Magna Charta. Deep pink, large sweet scented and of fine form; one of the hardiest.

Marshall P. Wilder. A grand rose of large full flowers of a bright carmine-red.

Mrs. John Laing. Large beautiful pink blooms, borne on long sturdy stems.

Paul Neyron. An immense rose of a deep rose color.

Prince C. De Rohan. (The Black Rose). Deep velvety-crimson passing to intense maroon.

Ulrich Brunner. Cherry-crimson, large fine form, strong grower and hardy.

Hardy Climbing Roses

We Offer the Best and Most Distinct Varieties.

PRICE—Strong Two-Year-Old Dormant Stock for Fall Planting, each, \$1.00; per dozen, \$10.00.

Sent by express at customer's expense.

If wanted by mail, add 10c each; 75c per dozen, for postage.

American Pillar. Color is a delightful shade of pink.

Climbing American Beauty. Same as its namesake in size, color and fragrance, with the addition of the climbing habit.

Crimson Rambler. Bright crimson flowers.

Dorothy Perkins. Beautiful shell-pink flowers.

Dr. W. Van Fleet. Rich, flesh-pink flowers.

Flower of Fairfield. Large trusses of crimson flowers.

Gardenia. Flowers bright yellow, opening cream.

Hiawatha. Brilliant, ruby-carmine flowers.

Philadelphia Rambler. Deep crimson flowers.

Lady Gay. A delicate cherry-pink.

Silver Moon. Large pure white flowers.

Tausendschon. Beautiful soft pink flowers.

Hardy Climbing Plants

AMPELOPSIS VEITCHII. (Japan Creeper or Boston Ivy). Best climbing plant for covering brick or stone walls.

Each, 50c; per dozen, \$5.00; by mail, each, 55c.

AMPELOPSIS QUINQUEFOLIA. (Virginia Creeper). For covering walls, verandas and trunks of trees.

Each, 50c; per dozen, \$5.00; by mail, each, 55c.

BIGNONIA RADICANS. (Trumpet Vine). Flowers trumpet-shaped, bright scarlet.

Each 25c; per dozen, \$2.50; by mail, each, 30c.

CLEMATIS. Paniculata. (Japanese Clematis). Pure white, very fragrant, borne in large clusters; small flowering.

Each, 50c; per dozen, \$5.00; by mail, each, 55c.

HONEYSUCKLES

Each, 50c; per dozen, \$5.00; by mail, each, 60c.

Aurea Reticulata. Foliage variegated yellow and green, with yellowish-white, fragrant flowers.

Monthly Fragrant or Dutch. Blooms all summer.

Common Woodbine. A strong, rapid grower; flowers red outside, buff within.

Halleana. Nearly evergreen; flowers pure white.

Scarlet Trumpet. Scarlet inodorous flowers.

Hardy Climbing Plants—Continued

IVY, English. Beautiful, evergreen vine.

Each, 50c; per dozen, \$5.00; by mail, each, 55c.

KUDZU VINE. (Or Jack-and-the-Bean-Stalk). A rapid growing vine.

Each, 50c; per dozen, \$5.00; by mail, each, 55c.

MATRIMONY VINE. The branches may be trained over fences or trellises.

Each, 35c; per dozen, \$3.50; by mail, each, 40c.

WISTARIA, CHINESE. Delicate, violet-blue blossoms.

Each, 60c; per dozen, \$6.00; by mail, each, 65c.

WISTARIA, CHINESE, WHITE. Pure white flowers.

Each, 75c; per dozen, \$7.50; by mail, each, 80c.

Trees

SHADE
AND

ORNAMENTAL

FOR LAWN, STREET AND FOREST PLANTING

ASH, American White. A handsome, hardy, broad-headed tree. 8 to 10 feet. Each, \$2.25; doz., \$22.50.

ASH, European. Smaller in its habit of growth than the American. 6 to 8 feet. Each, \$1.75; doz., \$17.50.

CATALPA SPECIOSA. A handsome, rapid growing tree. 8 to 10 feet. Each, \$1.50; doz., \$15.00.

CATALPA BUNGEI. (Umbrella Catalpa). See "Ornamental Trees," page 21, for description. 6 to 7 feet. Each, \$3.00; selected two year old, each, \$3.75.

ELM, American. A hardy, rapid grower; resists drought and is long lived. 8 to 10 feet. Each, \$2.00; doz., \$20.00.

LARCH, European. A pyramidal, cone-bearing tree. 4 to 6 feet. Each, \$1.75; per dozen, \$17.50.

LINDEN, American. A rapid growing tree with large leaves. 8 to 10 feet. Each, \$3.25; per dozen, \$32.50.

LINDEN, European. This is probably the largest leaved Linden. 6 to 8 feet. Each, \$3.25; doz., \$32.50.

LIQUIDAMBER. (Sweet Gum). A very ornamental tree and beautiful at every stage. 5 to 7 feet. Each, \$2.25; per dozen, \$22.50.

MAPLE, Norway. A large, handsome tree with a compact, rounded head of spreading branches. 8 to 10 feet. Each, \$4.50; per dozen, \$45.00.

MAPLE, Rock or Sugar. An excellent shade tree of upright, dense growth. Grows to a large size and is long lived. 6 to 8 feet. Each, \$3.25; per dozen, \$32.50.

MAPLE, Silver or Soft. Has wide, slender, spreading branches and thrives almost anywhere. 8 to 10 feet. Each, \$2.00; per dozen, \$20.00.

OAK, Red. A tree of rapid growth, growing into a large, majestic tree, the foliage turning dark red in fall. 6 to 8 feet. Each, \$3.00; per dozen, \$30.00.

OAK, Scarlet. A noble tree with spreading branches, leaves turn scarlet in fall. 6 to 8 feet. Each, \$3.00; per dozen, \$30.00.

OAK, Pin. Tree is fibrous rooted, transplants well and grows rapidly. Foliage turns bright red in fall. 6 to 8 feet. Each, \$3.00; per dozen, \$30.00.

POPLAR, Carolina. One of the surest and most rapid growing trees, 8 to 10 feet. Each, \$1.50; doz., \$15.00.

POPLAR, Bolleana. Its habit of growth is broader than the Lombardy; tall-growing with cottony leaves. 8 to 10 feet. Each, \$1.50; per dozen, \$15.00.

POPLAR, Lombardy. With age this tree becomes picturesque. 8 to 10 feet. Each, \$1.50; doz., \$15.00.

SALISBURIA. (Maiden Hair or Ginkgo). A tall, sparsely branched, usually slender tree, with leaves similar in shape to the Maiden Hair Fern. 6 to 8 feet. Each, \$3.00; per dozen, \$30.00.

SYCAMORE. *Plantanus Orientalis.* (Oriental Plane). Very hardy and does well in moist places. Thrives in smoky cities, making it a good tree for city planting. 6 to 8 feet. Each, \$2.00; per dozen, \$20.00.

TULIP TREE. (*Liriodendron Tulipifera*). Tall, hardy, tree of pyramidal habit and rapid growth. Bears flowers of a creamy-yellow and orange color in June. 6 to 8 feet. Each, \$1.75; per dozen, \$17.50.

WEeping TREES

BIRCH. (Cut-leaf Weeping). Tall, slender, drooping branches and delicately cut leaves. Its bare white trunk and branches make a beautiful winter picture. 6 to 8 feet. Each, \$3.25; per dozen, \$32.50.

MULBERRY. *Teas Weeping.* See "Ornamental Trees" page 21.

Fruit Trees, Small Fruits, Grape Vines, Etc.

SELECT thrifty young trees in preference to old or very large ones, as the roots are more tender and fibrous. They bear transplanting better and are more apt to live; they can also be more easily trimmed and shaped to any desired form and in the course of a few years will usually outstrip the older ones in growth. If not prepared to plant when your stock arrives, "heel in" by digging a trench deep enough to admit all the roots and setting the trees therein; carefully pack the earth about the roots, taking up when required. Never leave the roots exposed to the sun and air.

SENT BY EXPRESS OR FREIGHT AT EXPENSE OF PURCHASER.

We do not guarantee or replace Trees or Shrubs at prices quoted.

While we make no charge for packing or delivery to freight or express offices here, still on account of increased cost of operation we cannot accept orders for Fruit Trees in smaller quantities than six, either straight or assorted, at prices quoted. In smaller quantities, add 25c per tree, or get your friends to make up a Club Order, to be shipped to one address.

APPLES STANDARD

5 to 7 feet high. Each, \$1.25; per dozen, \$12.50.

SUMMER VARIETIES

EARLY HARVEST. Pale yellow, fine flavor; August.
RED ASTRACHAN. Large, crimson, juicy, with rich sub-acid flavor; hardy; July.
YELLOW TRANSPARENT. Pale yellow; good quality.

AUTUMN VARIETIES

DELICIOUS. Large, dark red, juicy, aromatic.
DUCHESS OF OLDENBURG OR DUCHESS. Large, rounded, yellow, striped red, tender, juicy.
FALL RAMBO. Yellow, streaked with red.
MAIDEN'S BLUSH. Large, beautiful, blush cheek.

WINTER VARIETIES

BALDWIN. Large, dark red; productive.
BANANA. Large, golden-yellow, shaded crimson.
BEN DAVIS. Large, handsome, striped; good quality.
GANO. Deep red, fine quality; good shipper and keeper.
GRIMES GOLDEN. Medium to large, skin golden-yellow, flesh crisp, tender, juicy; long keeper.
JONATHAN. Medium, red and yellow, flesh tender, juicy.
NORTHERN SPY. Large, striped red; good keeper.
ROME BEAUTY. Large, yellow, shaded red.
STAYMAN'S WINESAP. Fruit medium size, mostly covered with red on a yellow ground; flesh fine, crisp, juicy.
WINESAP. Medium, deep red, rich, sub-acid.
YORK IMPERIAL. Medium, yellow, shaded red, firm, juicy, sub-acid; an excellent shipping apple.

CRAB APPLES

CRAB Apples do well on almost all soils. Trees are hardy and vigorous, come into bearing early and bear almost every year. Excellent for cider, vinegar and jelly.

5 to 7 feet high. Each, \$1.25; per dozen, \$12.50.
HYSLOP. Deep crimson; very popular on account of its large size, beauty and hardness.
TRANSCENDANT. Skin yellow, striped with red.
WHITNEY. Large, glossy green, splashed carmine, firm, juicy, great bearer; excellent for cider.

CHERRIES

HEART AND BIGARREAU (Sweet)

5 to 7 feet, first-class, each \$2.50; per doz., \$25.00.
No home orchard is complete without some cherry trees. They are easily grown wherever the Apple succeeds and they bear good crops yearly.

BLACK TARTARIAN. Very large, purplish-black, juicy, rich, excellent, productive; last of June.
GOVERNOR WOOD. Large, light red, juicy, rich, delicious; tree healthy and productive; June.
NAPOLEON. Large, pale yellow, firm, juicy; productive.
ROCKFORT BIGARREAU. Large, yellow, juicy and sweet.
YELLOW SPANISH. Large, pale yellow with light red cheek; late June.

DUKE AND MORELLO (Sour).

4 to 6 feet, first-class. Each, \$2.00; per doz., \$20.00.
DYHOUSE. A very early and sure bearer; ripens a week before Early Richmond; fine quality; June.
EARLY RICHMOND. Medium, dark red, fine quality.
ENGLISH MORELLO. Dark red, rich, acid, juicy, and good.
WINDSOR. A large, delicious cherry, reddish-brown or liver colored; July.

SUITABLE DISTANCES FOR PLANTING FRUIT TREES.

Apples, standard, 30 to 40 feet. Pears, standard, 18 to 20 feet. Peaches, 16 to 18 feet. Cherries, sweet, 18 to 20 feet. Cherries, sour, 15 to 18 feet. Plums, 16 to 20 feet. Quinces, 10 to 12 feet.

We do not guarantee or replace Plants, Shrubs or Trees, at prices quoted.

PEACHES

4 to 6 feet, each, \$1.00; per dozen, \$10.00.

IF living on a farm, plant a small peach orchard for home use or a larger one for commercial purposes. If living on a city lot, plant a peach tree in the back yard.

CHAMPION. Creamy white with red cheeks, freestone, excellent quality; early in August.

CRAWFORD'S EARLY. Large, yellow, of good quality, freestone; early in September.

CRAWFORD'S LATE. Large, yellow with red cheeks, freestone; last of September.

ELBERTA. Large, yellow with red cheek, flesh yellow, firm, juicy, of high quality; very prolific; September.

HEATH CLING. Large, flesh white, juicy and melting; October.

OLD MIXON FREE. Large, yellow with red cheek; September.

PEARS

STANDARD AND DWARF

6 to 7 feet, first-class, each, \$2.25; per doz., \$22.50.

Pears should be included in all home orchards, as they will adapt themselves to as great a variety of soils as any other fruit.

BARTLETT. Large, clear yellow, juicy; August.

FLEMISH BEAUTY. Fruit is large, skin pale yellow, flavor sweet and melting; September and October.

KIEFFER'S HYBRID. Large, rich color and good quality.

SECKEL. Small, yellowish-brown; one of the best.

SHELDON. Large, round russet-red; October.

PLUMS

STANDARD ON PLUM STOCKS

5 to 7 feet, each, \$2.25; per dozen, \$22.50.

Plum trees require but little room to grow and are prolific bearers. For dessert, cooking and canning, the demand is almost unlimited.

ABUNDANCE. Large, yellow with heavy bloom, good quality; very prolific.

BRADSHAW. Large, dark violet-red, flesh yellow, juicy and good; middle of August.

BURBANK. The largest and best variety; color red; excellent quality; hardy and vigorous grower.

LOMBARD. Fruit is medium size, oval and violet-red, flesh yellow, juicy and pleasant; late August.

RED JUNE. Large, red, fine quality; strong, vigorous grower; finest extra early plum.

SHIPPER'S PRIDE. Large, purple, fine, juicy and sweet.

YELLOW EGG. A beautiful yellow, egg-shaped plum of large size; flesh yellow; late August.

QUINCES

4 to 5 feet, each, \$2.25; per dozen, \$22.50.

The Quince is a reliable cropper and requires but little care. While they will thrive in almost any soil, they prefer a heavy, moist, clay loam.

APPLE OR ORANGE. Large, bright golden-yellow, fine quality; flesh firm, cooks tender; October.

CHAMPION. Large, oval, of a rich color and excellent quality; ripens late and keeps well until January.

MULBERRIES

5 to 6 feet. Each, \$1.35; per dozen, \$13.50.

DOWNING'S EVERBEARING. One of the most prolific varieties, bearing an abundance of large, black, sub-acid fruit; hardy; fruits about three months.

A small number of trees, properly planted and tended, will bring better results and more satisfaction to the grower, than twice the number half cared for.

SMALL FRUITS, GRAPE VINES, ETC.—Continued

By Express or Freight at Expense of Purchaser.

BLACKBERRIES

Per dozen, \$1.00; per 100, \$7.50.

THE Blackberry is one of the most profitable fruits to grow when properly managed, as it thrives well in almost any soil, but reaches perfection in a strong loam tending towards clay.

Ancient Briton. Large fruit, stems loaded with good sized berries of fine quality; vigorous grower, one of the best.

Blower. Large berries; very productive.

Early Harvest. Dwarf grower; fruit medium size of fine quality; the first to ripen.

Eldorado. Large fruit, borne in large clusters and ripen well together, fine quality; good keeper.

Mersereau. Extremely hardy, berries large, extra quality, sweet, rich and melting without core; good keeper and shipper; vigorous grower.

Rathhun. A strong erect grower with strong stem, branching freely. Fruit very large, sweet and luscious, without hard core.

Snyder. Medium-sized fruit, sweet and juicy; extremely hardy and very productive.

Taylor. Medium-sized fruit of fine flavor, extremely hardy and very productive; ripens late.

Ward. A strong vigorous grower, producing fine, large fruit of excellent quality; hardy.

DEWBERRY

Lucretia. One of the low-growing, trailing blackberries. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family.

Per dozen, \$1.00; per 100, \$7.50.

CURRANTS

Two-Year-Old Plants

A cool, moist soil is best adapted to the growth of Currants. Strong, moist loams with a considerable mixture of clay, are good. Even well-drained, stiff clay will give good results.

Cherry. Deep red.....Each, 50c; per dozen, \$5.00.

Champion. This is one of the best black currants; fruit is above medium size.....Each, 50c; per dozen, \$5.00.

Perfection. A new red variety which promises to eclipse all other sorts, combining size, color, high quality and productiveness.....Each, 50c; per dozen, \$5.00.

White Grape. Best white variety.
Each, 50c; per dozen, \$5.00.

GOOSEBERRIES

Two-Year-Old Plants

The best results are obtained by planting in moist, but not soggy, clay loam, but they will do reasonably well in any well drained soil if they are well fertilized once each year.

Downing. Large, pale green, and of splendid quality for both cooking and table use.....Each, 50c; dozen, \$5.00.

Houghton's. Small to medium; roundish, oval, pale red, sweet, tender.....Each, 50c; dozen, \$5.00.

Industry. Berries of largest size, excellent flavor, pleasant and rich, dark red color when fully ripe; strong upright grower; an immense cropper.
Each, 50c; dozen, \$5.00.

Smith's Improved. Large, pale greenish-yellow, skin thin, of excellent quality....Each, 50c; dozen, \$5.00.

GRAPE VINES

ALL TWO-YEAR OLD SELECTED STOCK

This is one of the most satisfactory crops that can be grown, because it can be depended upon practically every year. Grape vines will grow almost anywhere, but they should be carefully cultivated and pruned.

BLACK OR PURPLE GRAPES

Campbell's Early. Bunch and berry large, glossy black, sweet and juicy; fine quality.

***Concord.** Large, black grape, hardy and productive; juicy and sweet.

***Ives' Seedling.** Dark purple; sweet.

Moore's Early. Ripens ten days earlier than Concord; bunch and berry round and large.
Each, 50c; per dozen, \$5.00.

Worden. Larger than Concord in bunch and berry; excellent flavor.....Each, 50c; per dozen, \$5.00.

SUITABLE DISTANCES FOR PLANTING SMALL FRUITS AND GRAPE VINES.

Blackberries, 5 to 7 feet.

Currants, 3 to 4 feet.

Raspberries, black, 4 to 5 feet. Strawberries, 1 ½ x 3 ½ feet.

GRAPE VINES—Continued

RED GRAPES

***Catawba.** Berries large, round; when ripe a dark copper color; sweet, rich.....Each, 50c; per dozen, \$5.00.

Delaware. Small, light red, thin skin; very juicy, sweet, sprightly.....Each, 50c; per dozen, \$5.00.

WHITE OR YELLOW GRAPES

Niagara. Vine remarkably hardy and strong grower; bunches very large and compact; berries large, light greenish-white, slightly ambered in the sun.
Each, 50c; per dozen, \$5.00.

Pocklington. Bunch and berry very large; attractive golden-yellow color.....Each, 50c; per dozen, \$5.00.
Varieties marked with a * are best for arbors.

RASPBERRIES

Once the Raspberry patch is established, it requires very little cultivation. They will do well in any good soil, but thrive best in deep, moist (not over wet) soil.

The lighter loams are preferable for the red varieties, while the heavier loams suit the black varieties best.

St. Regis. It is wonderfully prolific, the first or main crop being far greater than that of any other red variety known. It fruits on the old canes in generous quantities until late in August. By that date, berries begin to ripen upon the young canes, which continue to produce berries in increasing numbers until severe frost. The berries are a bright crimson, of large size and surpassing quality—rich, sugary with full raspberry flavor. They are of exceedingly meaty, firm texture and keep in good condition longer after being gathered than any other red raspberry.
Per dozen, \$1.00; per 100, \$7.50.

The following varieties are all, per dozen, \$1.00; per 100, \$7.50.

Cardinal. Produces a fine quality of dark red or almost purple berries through a long season.

Cumberland. The largest black cap; a healthy, vigorous grower; very productive.

Cuthbert. Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous.

Gregg. A large black variety; fruit firm.

Kansas. The hardest black cap; strong, vigorous.

STRAWBERRIES

STRAWBERRIES will do well in any soil that will grow good corn. Soil should be made fine and loose. A generous supply of well rotted manure incorporated in the soil is of great benefit.

Dip the plants in water as soon as received, and hurry the roots in moist, shady ground till you are ready to set them out.

Superb. The Ever-bearing Strawberry—is a truly wonderful fall-bearing variety, and what makes it unusually profitable is the fact that it also produces a heavy yield of choice fruit in the early summer, along with the standard varieties. They continue to give large yields of choice berries throughout August, September and in October up to the time the ground is slightly frozen. Plants of this variety which are set in the spring should have the blossoms removed until the first of July. The remainder of the blossoms may be left to develop into berries, and a good crop of fruit will thus be secured the same season the plants are set, without injury to the plants.....Per dozen, 60c; per 100, \$3.00.

The following varieties are all, per dozen, 50c; per 100, \$1.50.

Aroma. One of the finest for long-distance shipping. The large berries are bright red to the center, of conical shape with prominent and attractive yellow seeds.

Gandy. One of the best late varieties. Berries large, of fine form and excellent quality.

Glen Mary. Large to very large, sometimes flattened; sweet, rich, delightful.

Nick Ohmer. A fine, fancy market berry and always superb for the table; a giant in size.

Senator Dunlap. Exceedingly vigorous. Fruit large, regular and attractive in form, deep red to the center; firm in substance.

Wm. Belt. Berries very large, conical, bright red, of good flavor. The plant is strong, healthy, very fruitful; season medium to late.

Gooseberries, 3 to 4 feet.

Raspberries, red, 3 to 4 feet.

Strawberries, in beds, 1 ½ x 1 ½ feet. Grapes, 8 to 10 feet.

Horticultural Tools and Sundries

CANES. Five to seven feet long, for plant stakes; per 100.....\$1.75
CANES. Japanese, green dyed, 3 feet long; per 100.....\$1.75
GLASS CUTTER, ECLIPSE. The best cheap cutter on the market. Each, 15c; per dozen.....\$1.50
GLAZING POINTS, PEERLESS. Will stop your glass from sliding; made of galvanized steel wire.

Per 1,000

No. 1. For small single-thick glass, 75c
 No. 2. For large single-thick glass, 75c
 No. 2 1/2. For double-thick glass...75c

GLAZING POINTS, ZINC CITY. Effective on large or small glass; easy to drive, easy to extract.

Per lb.....60c

KNIVES, PRUNING, \$1.25 to \$2.00

KNIVES, BUDDING, \$1.00 to \$1.75

KNIVES, ASPARAGUS.....40c

LABELS, WOOD. For pots, painted:

Per 100 Per 1,000

4 x 5/8-inch.....\$0.25 \$2.00

5 x 5/8-inch......30 2.50

6 x 5/8-inch......40 3.00

8 x 7/8-inch..... 1.00 8.50

10 x 7/8-inch..... 1.25 11.00

12 x 1 1/8-inch..... 1.50 13.50

LABELS. Tree, notched, copper wired; per 100, 40c; per 1,000, \$3.00

LABELS. Tree, copper; No. 1, per 100, \$2.00; No. 2, per 100, \$2.50

LAWN CLEANER, PENNSYLVANIA. This machine will clean your lawn more thoroughly and quicker than three or four men can do it with hand rakes; and greatly benefit the turf.

In the autumn it takes up the heaviest fall of leaves. It is made of metal, wood and canvas and is put together in the most durable and thorough manner. Price....\$35.00

LAMP, DEFIANCE FUMIGATING. (For use in greenhouses). It burns kerosene. Used by prominent Market Gardeners all over the country. Each, 65c; per doz., \$6.75

MASTICA. For glazing greenhouses. One gallon will cover about 300 running feet (one side); gallon, \$2.90

MASTICA GLAZING MACHINE. Price.....\$2.90

MATS, HOTBED—Strong Burlap. Indestructible and warm. Size, 76 x 76 inches.....\$3.00

MATTOCK, LONG CUTTER. With handle.....\$1.75

MATTOCK, CRONE'S GARDEN.....90c

PLANT BED CLOTH. A substitute for glass, answering many uses equally well:

Light Grade, per yard.....15c

Heavy Grade, per yard.....30c

Write for special prices on large lots.

PRUNING KNIVES, TREE—Kansas Improved. Price.....\$3.00

PRUNING KNIVES, TREE—Happy Thought. Price, 6 ft.....\$1.50

8 ft.....\$1.75 10 ft.....\$2.00

PRUNING KNIVES, TREE—Detroit.

Price, 6 ft.....\$1.50 8 ft.....\$1.75

PRUNERS, LITTLE GIANT TREE.

To use on a pole. Price.....\$1.00

PRUNING SHEARS, CLYDE.

No. 1.....\$2.75 No. 2.....\$2.50

PRUNING SHEARS, HAND.

California Pattern, 9-inch, \$1.00

Wiss Heavy, Fine quality, 9-in. 3.50

Ladies' Hand.....\$1.50

PUTTY, PEERLESS BLACK GLAZING. For glazing greenhouses.

Remains flexible and pliable for years. Gallon.....\$1.75

PUTTY, TWELOW'S LIQUID GLAZING. For bedding glass in sash. One gallon will cover about 600 running feet (one side).

Gallon.....\$3.25

PUTTY BULB. A useful tool for applying liquid putty and glazing greenhouses.....\$1.35

RAFFIA, NATURAL. The best tying material for plants, also used for making hats, baskets, etc.

Per lb., 50c; 5 lbs., \$2.00.

RAFFIA, COLORED. For making baskets and fancy work in following colors: Black, Orange, Pink, Red and Yellow. 1 oz., 15c; 1 lb., \$1.25

SASH, HOTBED, UNGLAZED.

Made from strictly clear cypress lumber. White lead used on the tendons, and iron dowel pins at the corners:

No. 1. 3x6 ft., three rows, 10-inch glass. Each, \$3.00; dozen, \$30.00

No. 2. 4x6 ft., five rows, 8-inch glass. Each, \$3.25; dozen.....\$32.50

SAWS, PRUNING. 16-inch...\$1.00
 18-inch.....\$1.25

SAWS, PRUNING, Disston.....\$2.25

SEED SOWER, LITTLE GIANT.

For sowing wheat, oats, rye, flax, grass seed, clover seed, etc.; in fact, any kind of seed broadcast. It weighs but three pounds.....\$2.25

SPRINKLER, RUBBER, SCOLLAY'S. Indispensable for floral work and window gardening. Large size.....\$1.35

THERMOMETERS. Hotbed or Mushroom.....\$2.50

WATERING POTS, GALVANIZED.

Made from best quality of iron and heavily galvanized. Two roses with each pot for fine and coarse watering. Long Spout, 4 qt., \$3.75; 6 qt., \$4.00; 8 qt., \$4.25; 10 qt., \$4.50; 12 qt., \$4.75.

WAX, GRAFTING. 1/4 lb., 15c; 1/2 lb., 20c; 1 lb., 30c.

WIRE FOLDING PLANT STANDS.

There is more room for the pots and foliage than any other plant stand that takes the same amount of floor space.

3-Tray Wire Stand—Trays 7 1/2 in. wide x 30 in. long.....\$4.50

2-Tray Wire Stand—Trays 7 1/2 in. wide x 30 inches long.....\$3.50

1-Tray Wire Stand—Tray 10 in. wide x 24 in. long.....\$2.25

WIRE WINDOW SHELF FOR PLANTS. Strong, compact, with adjustable steel brackets; can be applied to any window moulding on flat part of same.

36-inch shelf, by 7 1/2 inches wide, with brackets complete.....\$1.50

42-inch shelf, by 7 1/2 inches wide, with brackets complete.....\$1.75

Lack of space prevents us listing all the Horticultural Tools and Sundries we carry—but will be pleased to supply any equipment needed at current prices.

Standard Flower Pots, Azalea Flower Pots and Round Seed Pans

Size	Each	Dozen	Per 100
2 inch.....	\$0.03	\$0.30	\$2.00
2 1/2 " " " " " "	.03	.35	2.50
3 " " " " " "	.04	.40	2.75
3 1/2 " " " " " "	.05	.45	3.25
4 " " " " " "	.06	.50	4.00
5 " " " " " "	.08	.75	6.00
6 " " " " " "	.12	1.20	9.00

Size	Each	Dozen	Per 100
7 inch.....	\$0.18	\$1.75	\$14.00
8 " " " " " "	.25	2.75	20.00
10 " " " " " "	.60	6.50	
12 " " " " " "	1.00	11.00	
14 " " " " " "	1.75		

Our Flower Pots and Saucers are standard make, of extra fine finish, and bear shipping well. No Charge for Packing.

Flower Pot Saucers

Size	Each	Dozen	Per 100
4 inch.....	\$0.04	\$0.35	\$2.50
5 " " " " " "	.05	.50	3.50
6 " " " " " "	.06	.60	4.50
7 " " " " " "	.10	1.00	7.00
8 " " " " " "	.12	1.20	
10 " " " " " "	.20	2.00	
12 " " " " " "	.25	2.75	

McCullough's Plant Tub

An excellent tub, neat and durable. Made from 3/4 inch Cypress, with iron handles and feet, 3 iron hoops and 2 coats of green paint.

No.	7-12 inches diameter, 11 inches high.	Each
No. 8-13	" " " " " "	2.25
No. 9-14	" " " " " "	2.50
No. 10-15	" " " " " "	2.75
No. 11-16	" " " " " "	3.00
No. 12-17	" " " " " "	3.40
No. 13-18	" " " " " "	4.00
No. 14-19	" " " " " "	4.50

Cedar Plant Tub

Made of seasoned selected Virginia White Cedar, bound with steel hoops. Painted green, inside and out, and top edge finished with round bevel.

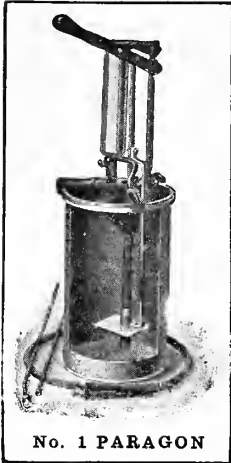
No feet, but furnished with iron handles.

No.	7-12 inches diameter, 11 inches high.	Each
No. 8-13	" " " " " "	1.75
No. 9-14	" " " " " "	2.00
No. 10-15	" " " " " "	2.25
No. 11-16	" " " " " "	2.50
No. 12-17	" " " " " "	3.15
No. 13-18	" " " " " "	3.75
No. 14-19	" " " " " "	4.25

PREPARED BULB FIBRE. Growing bulbs, such as Roman Hyacinths, Dutch Hyacinths, Tulips and Narcissus in special prepared fibre has proven a great success. We strongly recommend our customers to try a few of the various bulbs in this way. The bulbs are potted the same way as in ordinary soil, just showing their tops. Do not press the fibre tightly, otherwise the roots do not work freely. Once potted, they require hardly any attention, only care must be taken to keep the compost moist, but not too wet. Peck, 50c; bushel, \$1.75.

Paragon Sprayers

SPRAYING is of such importance that the Experiment Stations all over this country have given much of their attention to it, and their findings have been of incalculable value. Diseases and insects can no longer exist if the proper Insecticide is applied through the medium of an up-to-date spray apparatus.



No. 1 PARAGON

THESE Sprayers are strongly constructed and can be easily operated by one man. They can be brought in close proximity to the work, thereby eliminating the use of a long, expensive hose. Our patented, self-cleaning strainer prevents the necessity of first straining the liquid to be sprayed. The agitator also keeps the liquid thoroughly stirred.

The spray nozzle has only $\frac{1}{4}$ -inch outlet and spreads the liquid well, thereby covering a large surface with a small amount of liquid, making it a very economical sprayer.

All parts of the machine are made of the best material obtainable.

The reservoir is made of heavy galvanized iron. All essential fittings and valves are made of brass, making it strong and durable. The body of pump is cast iron, well ribbed to prevent breakage. The screen is of heavy perforated brass and will last many years. The pump frame can easily be removed from tank when it needs cleaning and by running water through machine after using, the entire machinery can be easily and thoroughly cleaned.

Suitable for spraying Insecticides and Fungicides on trees, shrubs and vines, as well as the application of Whitewash and Cold Water Paints.



Paragon Sprayers Do Not Clog

No. 3 PARAGON

Price List of Paragon Sprayers

- No. 0.** Capacity, 3 $\frac{1}{2}$ gallons. Equipment, 4 feet spray hose, 3 feet spray pipe, 1 mist spray nozzle, 1 steel cap for mist nozzle, 1 straight spray. Price.....\$15.00
- No. 1.** Capacity, 6 gallons. Equipment, 5 feet 6-ply hose, 5 feet spray pipe, two spray nozzles. Price.....\$20.00
- No. 3.** Capacity, 12 gallons. Equipment, 10 feet 6-ply hose, 7 $\frac{1}{2}$ feet spray pipe, two spray nozzles. Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired. Price.....\$30.00
- No. 3.** Machine without truck. Price.....\$26.00
- No. 4.** Capacity, 28 gallons. Equipment, 20 feet 6-ply hose, 10 feet spray pipe, two spray nozzles. Mounted on two strong 30-inch wheels. Price.....\$44.00

- No. 4.** Machine without wheels. Price.....\$34.00
- No. 5.** Capacity, 50 gallons. Equipment, 25 feet 6-ply hose, 10 feet spray pipe, one 3-way spray nozzle, one single spray nozzle. This sprayer has solid cast brass pump and large air chamber. It is positively the very best hand power sprayer made for tree spraying. Price.....\$50.00
- Nos. 1 and 3** Sprayers can be furnished with solid all cast brass pumps for—additional.....\$5.00
- No. 4** Sprayer can be furnished with solid all cast brass pump for—additional.....\$6.00

Send for descriptive circular giving detailed information.

Brass Lined Spray Poles Bamboo, brass lined, 10-ft. lengths, net price.....\$5.00
Wood-encased, brass pipes, 10-ft. lengths, net price, 5.00

Insecticides and Fungicides

Liquid Insecticides and Poisons cannot be sent by mail.

"BLACK LEAF 40"

For Aphis indoors use $\frac{3}{4}$ pint "BLACK LEAF 40" to 100 gallons of water or 1 teaspoonful to 1 gallon of water, with sufficient soap in water to make good suds. Several formulas for destroying other sucking insects on each package. This is a contact remedy. 1 oz. bottle, 25c; $\frac{1}{2}$ lb. tin, \$1.00; 2 lb. tin, \$3.25; 10 lb. tin, \$13.75.

ZENKE'S LIQUID FUNGICIDE

POWERFUL, reliable remedy for Leaf Spot, Leaf Rust, Scab, Mildew, Black and Brown Rot and most other Fungoid troubles. Per gallon, \$3.00.
(Sufficient to make 50 gallons of solution).

ZENKE'S COMPOUND PLANT INSECTICIDE

IS a contact remedy (Liquid). Very effective against Plant Lice, Black and White Fly, Mealy Bugs, Scale Insects, Eggs and Larva.

A very effective wash for Palms and Rubber Plants. 8 oz. can, 25c; per gallon, \$2.00. (One gallon is sufficient to make 20 to 35 gallons of solution).

LIME-SULPHUR SOLUTION

FOR fall, winter and early spring spray. Destroys San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphis, Blister Mite, any Scale Insects or Bark Lice. 1 gallon will make 8 gallons spraying liquid. 1 qt., 40c; $\frac{1}{2}$ gal., 65c; 1 gal., \$1.00; 5 gal., \$3.50; $\frac{1}{2}$ bbl. (25 gals.), \$9.80; 1 bbl., (50 gals.), \$15.00.

S. W. DRY LIME-SULPHUR

From 10 to 12 pounds of S. W. Dry Powdered Lime-Sulphur should be used with 50 gallons of water, for a dormant spray. 1 lb. can, 35c; 5 lb. can, \$1.50; 10 lb. can, \$2.25; 25 lb. can, \$4.50.

FISH OIL SOAP

For destroying insects on Plants, Trees, Vines, etc. This is also a contact remedy. $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; in bulk, 25 lbs., \$5.50.

NICO-FUME LIQUID

FOR destroying Aphis, Thrip and Red Spider. Contains 40 per cent nicotine.

Use one to two teaspoonsful of Liquid to each gallon of water. This is a contact remedy. $\frac{1}{4}$ lb., 65c; 1 lb., \$2.00; 4 lbs., \$7.50; 8 lbs., \$14.50.

NICO-FUME PAPER

STRIPS of paper strongly saturated with Nicotine. These, when suspended and lighted, make one of the best and simplest methods of fumigating greenhouses. Use 4 to 6 sheets for ordinary house 100 feet long by 20 feet wide. Price, air-tight cans, 24 sheets, \$1.25; 144 sheets, \$5.00; 288 sheets, \$9.50.

SCALECIDE

SCALECIDE is more than a Scale Spray—it is a tree invigorator, destroying blight cankers from which fire blight, collar rot, root rot, etc., is spread. As a delayed dormant spray when the buds are just starting it controls aphid without the addition of Nicotine.

Mixes instantly with water and stays mixed.

Add one gallon of "Scalecide" to 15 gallons of water, stir, and you are ready to spray any kind of tree when the leaves are off, provided it is not too cold to be comfortable.

Use a fine spray nozzle and thoroughly wet the tree from the topmost twig down to the ground and around the base of the tree and you can rest assured that you will have accomplished everything you could with any other dormant spray or combination of sprays, and in addition, some things they cannot do.

If used according to directions, will kill every San Jose Scale that comes in contact with it.

1 qt., 50c; 1 gallon, \$1.45; 5 gallons, \$6.45; 10 gallons, \$11.00; 30 gallons, \$27.00; 50 gallons, \$39.50.

TOBACCO DUST

A SURE remedy for Green Fly, Aphis, Fleas, Beetles, etc. 1 lb., 10c; 4 lbs., 25c; 10 lbs., 50c; 100 lbs., \$3.00.
TOBACCO DUST FOR FUMIGATING. 1 lb., 10c; 3 lbs., 25c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00.

Big Reduction Bargain

For immediate acceptance—Better send your order NOW

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Successful Farming 1 Full Year

Free Use of Successful Farming's Subscriber's Information Bureau

All for Only

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(Send 50 cents additional for extra postage if you live in Des Moines, Canada or a foreign country.)

SUCCESSFUL FARMING, Dept. Z. S., Des Moines, Iowa.

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Postoffice..... State

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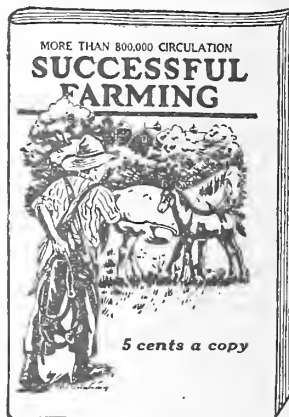


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Will bring to you during the year at least 1800 articles on Farmers' Organizations, Cooperative Marketing, Ways to Get Better Prices for Farm Products, Live Stock Breeding, Feeds and Feeding, Poultry, Practical Farm Suggestions, etc. Large Dressmaking, Household, and Boys' & Girls' Departments. 72 to 184 pages each issue. **Strong Horticultural Department**

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A splendid Family Magazine. Every issue filled with the best of Stories—the intense, gripping kind, clean and wholesome; lots of Recipes, Fashions, Fancy Work, Patterns. Many Special Departments. Every number will be of interest and value to every member of your family. Eight Big Serial Stories during the year; three to five complete Short Stories every month.



The Two Best in the Middle West

USE COUPON ON OTHER SIDE

Poultry Feeds and Supplies

SPECIAL NOTICE

Prices quoted represent market values at time of going to press only.

Market fluctuations prevent us quoting firm prices on Feeds in our Catalogues, but we are always prepared to quote firm prices upon receipt of an estimate of your wants. None of our Feeds contain grit.

Prices quoted include delivery to Express or Freight depots here, purchaser paying transportation charges. Postage must be added if wanted by mail.

"GLOBE" CHICK MASH WITH BUTTERMILK. 3 lbs., 25c; 25 lbs., \$1.50; 50 lbs., \$2.75; bag of 100 lbs., \$4.85;

"GLOBE" CHICK GROWING MASH WITH BUTTERMILK. 3 lbs., 25c; 25 lbs., \$1.50; 50 lbs., \$2.75; bag of 100 lbs., \$4.85.

"GLOBE" CHICK FEED. 4 lbs., 25c; 25 lbs., \$1.25; 50 lbs., \$2.25; bag of 100 lbs., \$3.80.

"GLOBE" DEVELOPING FEED. 4 lbs., 25c; 25 lbs., \$1.25; 50 lbs., \$2.20; bag of 100 lbs., \$3.70.

"GLOBE" SCRATCH FEED. 4 lbs., 25c; 25 lbs., \$1.20; 50 lbs., \$2.10; bag of 100 lbs., \$3.50.

"GLOBE" EGG MASH. 4 lbs., 25c; 25 lbs., \$1.35; 50 lbs., \$2.45; bag of 100 lbs., \$4.25.

SPRATT'S CHICK MEAL. 2 lbs., 35c; 25 lbs., \$3.75; 50 lbs., \$7.05; bag of 100 lbs., \$13.50.

SPRATT'S POULTRY MEAL. 2 lbs., 35c; 25 lbs., \$3.75; 50 lbs., \$7.05; bag of 100 lbs., \$13.50.

SPRATT'S TURKEY MEAL, GAME MEAL AND PHEASANT MEAL. 2 lbs., 35c; 25 lbs., \$3.75; 50 lbs., \$7.05; bag of 100 lbs., \$13.50.

PINHEAD OATS. 3 lbs., 25c; 25 lbs., \$1.50; 50 lbs., \$2.70; bag of 100 lbs., \$4.75.

HULLED OATS. 3 lbs., 25c; 25 lbs., \$1.45; 50 lbs., \$2.65; bag of 100 lbs., \$4.65.

GROUND OATS. 5 lbs., 25c; 25 lbs., \$1.05; 50 lbs., \$1.80; bag of 100 lbs., \$2.65.

SUNFLOWER SEED. 3 lbs., 25c; 25 lbs., \$1.35; 50 lbs., \$2.40; bag of 100 lbs., \$4.15.

ALFALFA MEAL, Fine. 5 lbs., 25c; 25 lbs., 95c; 50 lbs., \$1.60; bag of 100 lbs., \$2.55.

ALFALFA MEAL, Coarse. 5 lbs., 25c; 25 lbs., 90c; 50 lbs., \$1.50; bag of 100 lbs., \$2.35.

MEAT SCRAPS. 50% Protein. 3 lbs., 25c; 25 lbs., \$1.75; 50 lbs., \$3.20; bag of 100 lbs., \$5.70;

DIGESTER TANKAGE. 60% Protein. 3 lbs., 25c; 25 lbs., \$1.45; 50 lbs., \$2.65; per bag of 100 lbs., \$4.45.

BLOOD MEAL. 80% Protein. 2 lbs., 25c; 25 lbs., \$1.90; 50 lbs., \$3.50; bag of 100 lbs., \$6.35.

GRANULATED BONE. Furnished in three sizes; fine, medium and coarse. 3 lbs., 30c; 25 lbs., \$1.75; 50 lbs., \$3.20; bag of 100 lbs., \$5.70.

CHARCOAL. Furnished in three sizes; fine, medium and coarse. 4 lbs., 25c; 25 lbs., \$1.30; 50 lbs., \$2.10.

CRUSHED OYSTER SHELLS. Furnished in two sizes; fine and coarse. 4 lbs., 15c; 25 lbs., 75c; 50 lbs., \$1.10; bag of 100 lbs., \$1.65.

MICA CRYSTAL GRIT. Furnished in three sizes; fine, medium and coarse. 4 lbs., 15c; 25 lbs., 75c; 50 lbs., \$1.10; bag of 100 lbs., \$1.60.

No charge for bags on any of the above Feeds.

Miscellaneous Feeds

BARLEY, for Feed. 4 lbs., 25c; 25 lbs., \$1.20; 50 lbs., \$2.00; bag of 100 lbs., \$3.50.

BRAN. 6 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.30; bag of 100 lbs., \$2.20.

BUCKWHEAT, for Feed. 4 lbs., 25c; 25 lbs., \$1.25; 50 lbs., \$2.20; bag of 100 lbs., \$3.90.

CORN MEAL. 6 lbs., 25c; 25 lbs., 85c; 50 lbs., \$1.40; bag of 100 lbs., \$2.30.

CRACKED CORN. 6 lbs., 25c; 25 lbs., 85c; 50 lbs., \$1.40; bag of 100 lbs., \$2.30.

CORN, SHELLED. 6 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.30; bag of 100 lbs., \$2.10.

KAFFIR-CORN, White. 6 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.75; bag of 100 lbs., \$3.00.

MIDDINGS. 6 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.35; bag of 100 lbs., \$2.15.

MILO MAIZE. 6 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.75; bag of 100 lbs., \$3.00.

No charge for bags on any of the above Feeds.

Prices on all Poultry Feeds and Supplies Subject to change Without Notice. Write for Special Firm Prices on Lots of 5 Bags or Over.

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Pigeon Feeds

"GLOBE" PIGEON FEED. No corn—no grit. 3 lbs., 25c; 25 lbs., \$1.60; 50 lbs., \$2.95; bag of 100 lbs., \$5.25.

"KING" PIGEON FEED. 5 lbs., 25c; 25 lbs., \$1.35; 50 lbs., \$2.45; bag of 100 lbs., \$4.20.

CANADA PIGEON PEAS. 3 lbs., 25c; 25 lbs., \$1.75; 50 lbs., \$3.20; bag of 100 lbs., \$5.90.

HEMP SEED. 2 lbs., 30c; 25 lbs., \$2.50; 50 lbs., \$4.70; bag of 100 lbs., \$9.00.

PIGEON MILLET. 3 lbs., 25c; 25 lbs., \$1.15; 50 lbs., \$2.05; bag of 100 lbs., \$3.40.

McCULLOUGH'S HEALTH GRIT. 8 lbs., 25c; 25 lbs., 90c; 50 lbs., \$1.40; bag of 100 lbs., \$2.25.

FOUST'S HEALTH GRIT. 6 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.60; bag of 100 lbs., \$2.60;

ROCK SALT. 10 lbs., 25c; 25 lbs., 70c; 50 lbs., \$1.10; bag of 100 lbs., \$1.70.

No charge for bags on any of the above Feeds.

TOBACCO STEMS. Per bale, about 125 lbs., \$2.00.

Pure Seeds for Birds

CANARY SEED, re-cleaned......Per lb., 15c

RAPE SEED, re-cleaned......Per lb., 20c

HEMP SEED, re-cleaned......Per lb., 15c

SUNFLOWER SEED, re-cleaned......Per lb., 10c

MILLET SEED, re-cleaned......Per lb., 10c

LETTUCE SEED, re-cleaned......Per lb., 20c

CUTTLE BONE......10c per oz., Per lb., 75c

BIRD GRAVEL......Package, 15c

O. K. Poultry Litter

A DEODORIZER, ABSORBANT, DISINFECTANT, ECONOMICAL AND LABOR SAVING

O. K. POULTRY LITTER is imported and is especially adapted as a litter in Scratching Pens and for catching droppings under perches. Many prominent European Poultry Raisers have used it for years and we have imported large quantities of it for several of the leading breeders in this country.

One bale will cover about 50 square feet, 3 inches deep. Per bale, \$4.50; per bushel, \$1.25.

Mustard for Poultry

FRENCH'S POULTRY MUSTARD. 1½ lbs., 55c; 3 lbs., \$1.00; 5 lbs., \$1.65; 10 lbs., \$3.25; 25 lbs., \$7.80.

Blatchford's Calf Meal

BLATCHFORD'S CALF MEAL. 25 lbs., \$2.00; 50 lbs., \$3.20; 100 lbs., \$5.90.

Darling's Meat Crisps

DARLING'S MEAT CRISPS. 3 lbs., 35c; 6½ lbs., 70c; 25 lb. pail, \$3.50.

Milkoline

This is a pure condensed Buttermilk Feed for Poultry and Hogs, and being modified will keep an indefinite length of time in any climate, will not mould, sour, or lose its acidity.

Prices.—Per gal., \$2.00; 5 gals., \$6.00; 10 gals., \$10.00.

No charge for kegs or barrels.

Send for descriptive booklet.

CARBOLA

A Disinfecting Germ-Killing White Paint.

There is nothing that contributes more to success in poultry raising than absolute cleanliness and sanitation in the poultry house. Clean living quarters mean as much as proper feeding. Trial pkg., 30c; 10 lb., pkg. \$1.25; 50 lb. bag, \$5.25.

INSTRUCTIONS

Always Get Your Bulbs Early

IT IS advisable to get your bulbs in the ground as early as possible after the first of October. Sooner will do no harm in cold localities. Although they can be planted as late as the ground remains open, yet those planted early give finer flowers, as it is necessary for bulbs to make some root growth in fall to give the best results. The general line of bulbs will be ready the second week in September. A few kinds (chiefly lilies) are not ready for shipment before November, as they are not matured enough to take up before that time. Therefore, please note that all general orders will be shipped as soon as received, and the "November Bulbs" will be forwarded as early in November as possible. Should you wish us to hold your general order until November bulbs are ready, please so state.

OUR PRICES INCLUDE POSTAGE on single bulbs and by the dozen, except where otherwise noted. Bulbs quoted by the hundred are not sent prepaid.

Order Early. It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received.

Send the Money with the Order. Remit by Post Office Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

We do not send C. O. D. Everything being plainly priced, return charges on money is an unnecessary expense.

Should you change your address, we will esteem it a favor if you will notify us, so that we can forward our Catalogues with regularity; if you receive two catalogues of the same kind, please hand one to some friend who is interested in floriculture.

Should an Error Occur, we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

Write your name and address distinctly and in full; please use the order sheet and envelope inserted in this catalogue.

Our Spring Catalogue of Seeds, Bulbs, etc. for 1922 will be ready about January 1st, and will be sent free to all customers and applicants.

PARCEL POST RATES

All parcels of seeds, bulbs and plants, up to and including 8 oz., at the rate of 1c for each 2 oz., regardless of distance; over 8 oz., at the Zone Rate. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 oz., at the Zone Rate.

NOTE:—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

Limit of weight for delivery within local, first, second and third zones is 70 pounds; to all other zones, 50 pounds.

When larger quantities are wanted we can pack in two or more parcels if necessary, provided money is remitted to cover postage.

Zone	First Pound	Each Additional Pound
1 and 2—150 miles.	5c	1c
3—150 to 300 miles.	6c	2c
4—300 to 600 miles.	7c	4c
5—600 to 1,000 miles.	8c	6c
6—1,000 to 1,400 miles.	9c	8c
7—1,400 to 1,800 miles.	11c	10c
8—all over 1,800 miles.	12c	12c

Poisons cannot be sent by mail. Liquids and goods packed in glass should be sent by Express.

We, The J. M. McCullough's Sons Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

The J. M. McCullough's Sons Co.

Seedsmen

316 Walnut Street, Cincinnati, Ohio

Just Below Fourth

Phone, Main 4598

FALL CATALOGUE

—OF—

BULBS, PLANTS

—AND—

SEEDS
FOR 1921

With Complete Cultural Directions for Bulbs

H. B. McCullough,
PresidentGeo. H. Parvin,
Vice-Pres'tThe J. M.
McCullough's Sons Co.

Seedsmen

and

Importers of Bulbs

Growers and Dealers in

Hardy Perennial Plants,
Shrubbery, Roses,
Fruit and Shade Trees,
Small Fruits,
Grape Vines,
Etc.Poultry Supplies
and Appliances

Salesrooms and Offices:

316 WALNUT STREET
JUST BELOW FOURTHLong Distance
Phone Main 4598

Cincinnati, O.

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McCullough's High Grade Fertilizers

All Fertilizers Delivered Free on Board Cincinnati. Prices Subject to Change Without Notice.

PURE BONE MEAL

THIS pulverized ground bone is excellent for rose culture and lawns. It decomposes rapidly and is quickly effective. Should be applied at the rate of 400 to 500 lbs. per acre. Analysis: Ammonia 2%; total phos. acid, 27%.

1 lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.25; 50 lbs., \$2.25; per bag of 125 lbs., \$4.25.

SHEEP MANURE—Pulverized

THIS is a natural manure; excellent for mixing with the soil. Strewn over and dug into the vegetable garden or placed directly in drills or hills, it promotes a rapid, steady growth. Especially valuable for lawns, contains all the constituents for promoting a quick, luxuriant growth and a rich green color. Use at the rate of from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden spread over the surface and dig in. Being soluble, it readily makes a safe liquid manure—one pound to five gallons of water can be used. 1 lb. carton, 10c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$1.65; 100 lbs., \$2.75.

CATTLE MANURE—Shredded

A SUBSTITUTE for stable manure in gardens and greenhouses, as it supplies plant food, humus and organic matter; largely used for Rose culture and for mulching. The quality we offer is selected manure taken from paved Stock Yards cattle pens—dried and sterilized by a high temperature direct heat process which kills weed seeds, fungus and disease germs. 100 lb. bags only. Per bag of 100 lbs., \$2.75.

LAWN LIME

The Grass and Garden Tonic

THIS lime is especially prepared for use on soil, as it is essentially a plant food, useful for correcting acid soils, also for binding sandy soils and loosening clay soils. Should be applied at the rate of 1,000 to 2,000 lbs. per acre for sandy soils and 2,000 to 3,000 lbs. per acre for clay soils, a few weeks before applying Commercial Fertilizers.

Per bag of 100 lbs., \$1.50; 5 bags, (500 lbs.), \$6.25; 10 bags, (1,000 lbs.), \$11.00.

HALF AND HALF

IS especially valuable for Field Crops, Potatoes and Grain. Should be applied at the rate of 400 to 500 lbs. per acre. Analysis: Ammonia, 2%; total phos. acid, 16%; potash K₂O, 1%.

5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$2.00; per bag of 125 lbs., \$3.50.

AGRICULTURAL LIMESTONE

Destroys Soil Acidity—Loosens Up Clay Soils—Tightens Up Sandy Soils

Apply at the rate of 2,000 to 4,000 lbs. per acre, and may be applied at any season of the year.

Packed in 100 lb. bags.
Per bag of 100 lbs., \$1.25; 5 bags, \$5.75; 10 bags (1,000 lbs.), \$10.00.

ACID PHOSPHATE 16%

Apply from 200 to 400 lbs. per acre. Analysis: Available phos. acid, 16%; insoluble, 1%.
5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; per bag of 125 lbs., \$2.50.

NITRATE OF SODA

CARRIES approximately 20% of ammonia and comes in crystals which vary in size. It is sometimes lumpy and the lumps should be crushed to a powder before the material is applied. Owing to the fact that Nitrate of Soda is a highly concentrated form of plant food, care should be used in applying the material to plants on the leaf surface.
1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.15; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$7.00.

SULPHATE OF AMMONIA

CONTAINS approximately 25% of ammonia and comes in fine crystals which is very nice to apply broadcast.
1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.15; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$7.00.

BACTERIAIZED HUMUS

THIS article is prepared from deposits of decayed vegetable matter. It has been successfully used for years and has proven to be worthy of extensive use. It is desirable for greenhouse and flower garden work, also for lawns and vegetables.

Humus in some form is the most essential element of plant life. It is rich in ammonia, phosphoric acid, potash and lime. 5 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00.

HYDRATED LIME

THIS lime is used for sweetening acid or sour soils.
3 lb. package, 15c; bag of 50 lbs., \$1.10; 5 bags (250 lbs.), \$5.00; 10 bags (500 lbs.), \$9.50.

MOSS, PEAT AND POTTING SOIL

Moss, Green Sheet. For hanging baskets, etc. Per lb., 40c; large bag, \$2.00.
Moss, Sphagnum. For packing plants and growing orchids, etc. 1 lb., 15c; per bale, \$2.50.
Peat, Jersey. Per bushel, \$1.50; per bag of two measured bushels, \$2.75.
Potting Soil. Peck, 35c; per bushel, \$1.25.

Write for Special Prices on Lots of 500 lbs. or Over.

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